

APPENDIX H

CLIMATE CHANGE



Off-road Equipment - Equipment from project plan;
Grading 2- 2 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Grading 3 - 2 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Grading 1 - 2 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Rem 1 - 1 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Rem 2 - 1 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Rem 3 - 1 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe
Trips and VMT - Worker/vendor trips calculated from CalEEMod Appx A factors
Grading - Export and acreage of disturbance from project description
Vehicle Trips - Weekday trip rates from traffic analysis. Sat and Sun rates from default ratios.
Soccer field and tennis court trips included in City Park
Woodstoves - No wood stoves or wood fireplaces. Gas FP in all SF and 90% of condo/townhouse.
Energy Use -
Water And Wastewater - Water use from project WSA in EIR Section 4.15; res grouping may vary but all H2O included.
Solid Waste - Solid waste generation rates from project study; substantially higher than defaults.
Landfill gas data for Bowerman landfill from OCWaste.
Land Use Change - Data per bio resources analysis
Construction Off-road Equipment Mitigation - Engine mitigation - Roughly 50% Tier 3 and 50% Tier 4
Dust mitigation - per Rule 403
Mobile Land Use Mitigation - 1,375 du/150 acres-conservative inclusion of 50 acres local parks
206 du below market rate
Diversity- res, retail, parks all on site
Mobile Commute Mitigation -
Area Mitigation -
Energy Mitigation -
Water Mitigation -
Sequestration - Sequestration new trees estimate by FORMA

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					
2014	1.76	14.11	8.29	0.02	6.51	0.66	7.17	1.80	0.66	2.46		1,526.28	1,526.28	0.14	0.00	1,529.26
2015	2.32	16.89	11.73	0.02	6.72	0.83	7.55	1.89	0.83	2.72		2,161.32	2,161.32	0.19	0.00	2,165.27
2016	2.01	14.07	10.73	0.02	3.86	0.70	4.55	1.03	0.70	1.72		2,012.59	2,012.59	0.16	0.00	2,016.02
2017	1.81	10.94	11.54	0.03	3.20	0.56	3.77	1.05	0.56	1.62		2,210.94	2,210.94	0.15	0.00	2,214.03
2018	1.14	6.55	7.84	0.02	1.48	0.33	1.80	0.37	0.32	0.70		1,579.88	1,579.88	0.09	0.00	1,581.82
2019	1.70	9.25	12.71	0.03	2.22	0.46	2.68	0.39	0.45	0.84		2,642.57	2,642.57	0.14	0.00	2,645.47
2020	0.72	3.61	5.94	0.02	0.88	0.18	1.06	0.01	0.18	0.19		1,276.25	1,276.25	0.06	0.00	1,277.47
2021	0.62	3.03	5.27	0.01	0.81	0.15	0.96	0.01	0.14	0.15		1,164.31	1,164.31	0.05	0.00	1,165.35
2022	0.58	2.78	5.10	0.01	0.81	0.13	0.94	0.01	0.13	0.14		1,152.66	1,152.66	0.05	0.00	1,153.63
2023	0.53	2.48	4.77	0.01	0.78	0.11	0.89	0.01	0.11	0.12		1,101.94	1,101.94	0.04	0.00	1,102.82
Total	13.19	83.71	83.92	0.19	27.27	4.11	31.37	6.57	4.08	10.66		16,828.74	16,828.74	1.07	0.00	16,851.14

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	8.46	0.24	20.94	0.00		0.00	0.18		0.00	0.18		956.18	956.18	0.05	0.02	962.48
Energy	0.25	2.15	1.00	0.01		0.00	0.17		0.00	0.17		5,037.41	5,037.41	0.16	0.09	5,068.53
Mobile	29.85	19.22	98.87	0.26	26.50	1.25	27.75	0.41	1.08	1.49		18,527.14	18,527.14	0.71	0.00	18,542.00
Waste						0.00	0.00		0.00	0.00		0.00	#####	36.59	0.00	#####

Water						0.00	0.00		0.00	0.00		702.42	702.42	3.07	0.09	794.06
Total	38.56	21.61	120.81	0.27	26.50	1.25	28.10	0.41	1.08	1.84		25,223.15	#####	40.58	0.20	#####

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	8.46	0.24	20.94	0.00		0.00	0.18		0.00	0.18		956.18	956.18	0.05	0.02	962.48
Energy	0.24	2.05	0.95	0.01		0.00	0.17		0.00	0.17		4,914.65	4,914.65	0.16	0.09	4,945.02
Mobile	21.48	15.20	75.96	0.17	17.22	0.85	18.07	0.26	0.74	1.01		12,357.70	12,357.70	0.50	0.00	12,368.25
Waste						0.00	0.00		0.00	0.00		0.00	#####	36.59	0.00	#####
Water						0.00	0.00		0.00	0.00		606.97	606.97	2.46	0.07	680.56
Total	30.18	17.49	97.85	0.18	17.22	0.85	18.42	0.26	0.74	1.36		18,835.50	#####	39.76	0.18	#####

2.3 Vegetation

Vegetation

	ROG	NOx	CO	SO2	CO2e
Category	tons				MT
New Trees					5,761.60
Vegetation Land Change					-2,198.13
Total					3,563.47

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Remediation 1 - 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					
Fugitive Dust					1.07	0.00	1.07	0.57	0.00	0.57		0.00	0.00	0.00	0.00	0.00
Off-Road	0.89	7.18	4.05	0.01		0.33	0.33		0.33	0.33		741.66	741.66	0.07	0.00	743.18
Total	0.89	7.18	4.05	0.01	1.07	0.33	1.40	0.57	0.33	0.90		741.66	741.66	0.07	0.00	743.18

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.03	0.28	0.18	0.00	2.26	0.01	2.27	0.00	0.01	0.01		46.26	46.26	0.00	0.00	46.28
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
Worker	0.01	0.01	0.09	0.00	0.02	0.00	0.02	0.00	0.00	0.00		16.02	16.02	0.00	0.00	16.04
Total	0.04	0.29	0.27	0.00	2.28	0.01	2.29	0.00	0.01	0.01		62.28	62.28	0.00	0.00	62.32

3.3 Grading Phase I - 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					
Fugitive Dust					0.67	0.00	0.67	0.36	0.00	0.36		0.00	0.00	0.00	0.00	0.00
Off-Road	0.48	3.80	2.28	0.00		0.18	0.18		0.18	0.18		409.75	409.75	0.04	0.00	410.57

Total	0.48	3.80	2.28	0.00	0.67	0.18	0.85	0.36	0.18	0.54		409.75	409.75	0.04	0.00	410.57
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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
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
Worker	0.01	0.01	0.06	0.00	0.01	0.00	0.01	0.00	0.00	0.00		10.15	10.15	0.00	0.00	10.16
Total	0.01	0.01	0.06	0.00	0.01	0.00	0.01	0.00	0.00	0.00		10.15	10.15	0.00	0.00	10.16

3.3 Grading Phase I - 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					
Fugitive Dust					0.67	0.00	0.67	0.36	0.00	0.36		0.00	0.00	0.00	0.00	0.00
Off-Road	0.44	3.42	2.17	0.00		0.16	0.16		0.16	0.16		402.24	402.24	0.04	0.00	402.99
Total	0.44	3.42	2.17	0.00	0.67	0.16	0.83	0.36	0.16	0.52		402.24	402.24	0.04	0.00	402.99

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
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

Worker	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00		9.74	9.74	0.00	0.00	9.75
Total	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00		9.74	9.74	0.00	0.00	9.75

3.4 Remediation 2 - 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					
Fugitive Dust					1.60	0.00	1.60	0.87	0.00	0.87		0.00	0.00	0.00	0.00	0.00
Off-Road	0.34	2.76	1.55	0.00		0.13	0.13		0.13	0.13		284.59	284.59	0.03	0.00	285.17
Total	0.34	2.76	1.55	0.00	1.60	0.13	1.73	0.87	0.13	1.00		284.59	284.59	0.03	0.00	285.17

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	0.01	0.07	0.05	0.00	0.87	0.00	0.87	0.00	0.00	0.00		11.70	11.70	0.00	0.00	11.70
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
Worker	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00		6.15	6.15	0.00	0.00	6.15
Total	0.01	0.07	0.09	0.00	0.88	0.00	0.88	0.00	0.00	0.00		17.85	17.85	0.00	0.00	17.85

3.4 Remediation 2 - 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					
Fugitive Dust					1.60	0.00	1.60	0.87	0.00	0.87		0.00	0.00	0.00	0.00	0.00

Off-Road	0.95	7.52	4.40	0.01		0.34	0.34		0.34	0.34		840.84	840.84	0.08	0.00	842.45
Total	0.95	7.52	4.40	0.01	1.60	0.34	1.94	0.87	0.34	1.21		840.84	840.84	0.08	0.00	842.45

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	0.18	0.12	0.00	2.56	0.01	2.56	0.00	0.01	0.01		34.72	34.72	0.00	0.00	34.74
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
Worker	0.01	0.01	0.10	0.00	0.02	0.00	0.03	0.00	0.00	0.00		17.76	17.76	0.00	0.00	17.78
Total	0.03	0.19	0.22	0.00	2.58	0.01	2.59	0.00	0.01	0.01		52.48	52.48	0.00	0.00	52.52

3.5 Building Construction Phase I - 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					
Off-Road	0.55	3.38	2.70	0.00		0.21	0.21		0.21	0.21		421.21	421.21	0.04	0.00	422.14
Total	0.55	3.38	2.70	0.00		0.21	0.21		0.21	0.21		421.21	421.21	0.04	0.00	422.14

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
Vendor	0.04	0.36	0.27	0.00	0.02	0.01	0.04	0.00	0.01	0.01		70.41	70.41	0.00	0.00	70.44
Worker	0.07	0.07	0.73	0.00	0.18	0.01	0.19	0.01	0.01	0.01		134.20	134.20	0.01	0.00	134.35

Total	0.11	0.43	1.00	0.00	0.20	0.02	0.23	0.01	0.02	0.02		204.61	204.61	0.01	0.00	204.79
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3.5 Building Construction Phase I - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.55	3.37	2.92	0.01		0.20	0.20		0.20	0.20		459.98	459.98	0.04	0.00	460.91
Total	0.55	3.37	2.92	0.01		0.20	0.20		0.20	0.20		459.98	459.98	0.04	0.00	460.91

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
Vendor	0.04	0.36	0.27	0.00	0.03	0.01	0.04	0.00	0.01	0.01		77.03	77.03	0.00	0.00	77.06
Worker	0.07	0.07	0.73	0.00	0.20	0.01	0.21	0.01	0.01	0.02		142.49	142.49	0.01	0.00	142.63
Total	0.11	0.43	1.00	0.00	0.23	0.02	0.25	0.01	0.02	0.03		219.52	219.52	0.01	0.00	219.69

3.5 Building Construction Phase I - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.37	2.30	2.16	0.00		0.13	0.13		0.13	0.13		343.67	343.67	0.03	0.00	344.30
Total	0.37	2.30	2.16	0.00		0.13	0.13		0.13	0.13		343.67	343.67	0.03	0.00	344.30

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
Vendor	0.02	0.25	0.19	0.00	0.02	0.01	0.03	0.00	0.01	0.01		57.70	57.70	0.00	0.00	57.73
Worker	0.05	0.05	0.51	0.00	0.15	0.01	0.16	0.01	0.01	0.01		104.15	104.15	0.00	0.00	104.25
Total	0.07	0.30	0.70	0.00	0.17	0.02	0.19	0.01	0.02	0.02		161.85	161.85	0.00	0.00	161.98

3.6 Remediation 3 - 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					
Fugitive Dust					1.20	0.00	1.20	0.65	0.00	0.65		0.00	0.00	0.00	0.00	0.00
Off-Road	0.25	1.92	1.16	0.00		0.09	0.09		0.09	0.09		221.29	221.29	0.02	0.00	221.70
Total	0.25	1.92	1.16	0.00	1.20	0.09	1.29	0.65	0.09	0.74		221.29	221.29	0.02	0.00	221.70

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.02	0.01	0.00	0.43	0.00	0.43	0.00	0.00	0.00		3.91	3.91	0.00	0.00	3.91
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
Worker	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00		5.01	5.01	0.00	0.00	5.01

Total	0.00	0.02	0.04	0.00	0.44	0.00	0.44	0.00	0.00	0.00		8.92	8.92	0.00	0.00	8.92
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3.6 Remediation 3 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.20	0.00	1.20	0.65	0.00	0.65		0.00	0.00	0.00	0.00	0.00
Off-Road	0.91	6.96	4.44	0.01		0.32	0.32		0.32	0.32		875.09	875.09	0.07	0.00	876.65
Total	0.91	6.96	4.44	0.01	1.20	0.32	1.52	0.65	0.32	0.97		875.09	875.09	0.07	0.00	876.65

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.01	0.07	0.05	0.00	1.71	0.00	1.71	0.00	0.00	0.00		15.50	15.50	0.00	0.00	15.51
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
Worker	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.00	0.00	0.00		19.26	19.26	0.00	0.00	19.27
Total	0.02	0.08	0.15	0.00	1.74	0.00	1.74	0.00	0.00	0.00		34.76	34.76	0.00	0.00	34.78

3.6 Remediation 3 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.20	0.00	1.20	0.65	0.00	0.65		0.00	0.00	0.00	0.00	0.00
Off-Road	0.21	1.59	1.07	0.00		0.07	0.07		0.07	0.07		217.93	217.93	0.02	0.00	218.30

Total	0.21	1.59	1.07	0.00	1.20	0.07	1.27	0.65	0.07	0.72		217.93	217.93	0.02	0.00	218.30
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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	0.02	0.01	0.00	0.43	0.00	0.43	0.00	0.00	0.00		3.87	3.87	0.00	0.00	3.87
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
Worker	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00		4.69	4.69	0.00	0.00	4.70
Total	0.00	0.02	0.03	0.00	0.44	0.00	0.44	0.00	0.00	0.00		8.56	8.56	0.00	0.00	8.57

3.7 Grading Phase 2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.68	0.00	0.68	0.36	0.00	0.36		0.00	0.00	0.00	0.00	0.00
Off-Road	0.43	3.22	2.16	0.00		0.15	0.15		0.15	0.15		413.51	413.51	0.03	0.00	414.24
Total	0.43	3.22	2.16	0.00	0.68	0.15	0.83	0.36	0.15	0.51		413.51	413.51	0.03	0.00	414.24

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
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

Worker	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00		9.74	9.74	0.00	0.00	9.75
Total	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00		9.74	9.74	0.00	0.00	9.75

3.7 Grading Phase 2 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.68	0.00	0.68	0.36	0.00	0.36		0.00	0.00	0.00	0.00	0.00
Off-Road	0.39	2.86	2.05	0.00		0.13	0.13		0.13	0.13		402.24	402.24	0.03	0.00	402.90
Total	0.39	2.86	2.05	0.00	0.68	0.13	0.81	0.36	0.13	0.49		402.24	402.24	0.03	0.00	402.90

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
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
Worker	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00		9.27	9.27	0.00	0.00	9.28
Total	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00		9.27	9.27	0.00	0.00	9.28

3.8 Building Phase 2 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.45	2.80	2.64	0.00		0.16	0.16		0.16	0.16		419.45	419.45	0.04	0.00	420.22

Total	0.45	2.80	2.64	0.00		0.16	0.16		0.16	0.16		419.45	419.45	0.04	0.00	420.22
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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
Vendor	0.09	0.88	0.67	0.00	0.07	0.03	0.10	0.01	0.03	0.03		202.48	202.48	0.00	0.00	202.57
Worker	0.21	0.19	2.17	0.01	0.64	0.02	0.67	0.03	0.02	0.05		445.49	445.49	0.02	0.00	445.92
Total	0.30	1.07	2.84	0.01	0.71	0.05	0.77	0.04	0.05	0.08		647.97	647.97	0.02	0.00	648.49

3.8 Building Phase 2 - 2018

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	0.45	2.79	2.86	0.01		0.15	0.15		0.15	0.15		459.98	459.98	0.04	0.00	460.75
Total	0.45	2.79	2.86	0.01		0.15	0.15		0.15	0.15		459.98	459.98	0.04	0.00	460.75

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
Vendor	0.09	0.89	0.68	0.00	0.08	0.03	0.10	0.00	0.03	0.03		222.63	222.63	0.00	0.00	222.71
Worker	0.22	0.20	2.21	0.01	0.71	0.03	0.73	0.01	0.02	0.03		478.27	478.27	0.02	0.00	478.71

Total	0.31	1.09	2.89	0.01	0.79	0.06	0.83	0.01	0.05	0.06		700.90	700.90	0.02	0.00	701.42
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3.8 Building Phase 2 - 2019

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	0.41	2.54	2.84	0.01		0.13	0.13		0.13	0.13		459.98	459.98	0.03	0.00	460.69
Total	0.41	2.54	2.84	0.01		0.13	0.13		0.13	0.13		459.98	459.98	0.03	0.00	460.69

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
Vendor	0.08	0.84	0.64	0.00	0.08	0.03	0.10	0.00	0.02	0.03		223.20	223.20	0.00	0.00	223.28
Worker	0.21	0.18	2.06	0.01	0.71	0.03	0.73	0.01	0.02	0.03		468.70	468.70	0.02	0.00	469.12
Total	0.29	1.02	2.70	0.01	0.79	0.06	0.83	0.01	0.04	0.06		691.90	691.90	0.02	0.00	692.40

3.8 Building Phase 2 - 2020

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	0.03	0.20	0.25	0.00		0.01	0.01		0.01	0.01		40.53	40.53	0.00	0.00	40.59
Total	0.03	0.20	0.25	0.00		0.01	0.01		0.01	0.01		40.53	40.53	0.00	0.00	40.59

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
Vendor	0.01	0.07	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00		19.72	19.72	0.00	0.00	19.72
Worker	0.02	0.01	0.17	0.00	0.06	0.00	0.06	0.00	0.00	0.00		40.52	40.52	0.00	0.00	40.56
Total	0.03	0.08	0.22	0.00	0.07	0.00	0.07	0.00	0.00	0.00		60.24	60.24	0.00	0.00	60.28

3.9 Grading Phase 3 - 2018

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					0.68	0.00	0.68	0.36	0.00	0.36		0.00	0.00	0.00	0.00	0.00
Off-Road	0.37	2.66	2.04	0.00		0.12	0.12		0.12	0.12		409.75	409.75	0.03	0.00	410.39
Total	0.37	2.66	2.04	0.00	0.68	0.12	0.80	0.36	0.12	0.48		409.75	409.75	0.03	0.00	410.39

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
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
Worker	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00		9.24	9.24	0.00	0.00	9.25

Total	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00		9.24	9.24	0.00	0.00	9.25
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3.9 Grading Phase 3 - 2019

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					0.68	0.00	0.68	0.36	0.00	0.36		0.00	0.00	0.00	0.00	0.00
Off-Road	0.35	2.40	1.98	0.00		0.11	0.11		0.11	0.11		405.99	405.99	0.03	0.00	406.58
Total	0.35	2.40	1.98	0.00	0.68	0.11	0.79	0.36	0.11	0.47		405.99	405.99	0.03	0.00	406.58

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00		8.97	8.97	0.00	0.00	8.98
Total	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00		8.97	8.97	0.00	0.00	8.98

3.10 Building Phase 3 - 2019

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	0.38	2.32	2.59	0.00		0.12	0.12		0.12	0.12		419.45	419.45	0.03	0.00	420.09

Total	0.38	2.32	2.59	0.00		0.12	0.12		0.12	0.12		419.45	419.45	0.03	0.00	420.09
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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
Vendor	0.08	0.80	0.61	0.00	0.07	0.02	0.10	0.00	0.02	0.02		212.38	212.38	0.00	0.00	212.45
Worker	0.20	0.17	1.95	0.01	0.67	0.02	0.69	0.01	0.02	0.03		443.88	443.88	0.02	0.00	444.28
Total	0.28	0.97	2.56	0.01	0.74	0.04	0.79	0.01	0.04	0.05		656.26	656.26	0.02	0.00	656.73

3.10 Building Phase 3 - 2020

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	0.38	2.32	2.83	0.01		0.11	0.11		0.11	0.11		461.75	461.75	0.03	0.00	462.39
Total	0.38	2.32	2.83	0.01		0.11	0.11		0.11	0.11		461.75	461.75	0.03	0.00	462.39

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
Vendor	0.08	0.83	0.63	0.00	0.08	0.02	0.10	0.00	0.02	0.03		234.35	234.35	0.00	0.00	234.43

Worker	0.21	0.17	2.01	0.01	0.74	0.03	0.76	0.01	0.02	0.04		479.38	479.38	0.02	0.00	479.79
Total	0.29	1.00	2.64	0.01	0.82	0.05	0.86	0.01	0.04	0.07		713.73	713.73	0.02	0.00	714.22

3.10 Building Phase 3 - 2021

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	0.34	2.09	2.80	0.01		0.10	0.10		0.10	0.10		459.98	459.98	0.03	0.00	460.56
Total	0.34	2.09	2.80	0.01		0.10	0.10		0.10	0.10		459.98	459.98	0.03	0.00	460.56

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
Vendor	0.08	0.78	0.59	0.00	0.08	0.02	0.10	0.00	0.02	0.02		233.97	233.97	0.00	0.00	234.04
Worker	0.20	0.16	1.88	0.01	0.73	0.03	0.76	0.01	0.02	0.04		470.36	470.36	0.02	0.00	470.75
Total	0.28	0.94	2.47	0.01	0.81	0.05	0.86	0.01	0.04	0.06		704.33	704.33	0.02	0.00	704.79

3.10 Building Phase 3 - 2022

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	0.32	1.89	2.78	0.01		0.08	0.08		0.08	0.08		458.22	458.22	0.03	0.00	458.76

Total	0.32	1.89	2.78	0.01		0.08	0.08		0.08	0.08		458.22	458.22	0.03	0.00	458.76
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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
Vendor	0.07	0.74	0.56	0.00	0.08	0.02	0.10	0.00	0.02	0.02		233.58	233.58	0.00	0.00	233.64
Worker	0.19	0.15	1.77	0.01	0.73	0.03	0.76	0.01	0.02	0.04		460.86	460.86	0.02	0.00	461.23
Total	0.26	0.89	2.33	0.01	0.81	0.05	0.86	0.01	0.04	0.06		694.44	694.44	0.02	0.00	694.87

3.10 Building Phase 3 - 2023

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	0.28	1.66	2.66	0.01		0.07	0.07		0.07	0.07		440.60	440.60	0.02	0.00	441.08
Total	0.28	1.66	2.66	0.01		0.07	0.07		0.07	0.07		440.60	440.60	0.02	0.00	441.08

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
Vendor	0.07	0.69	0.51	0.00	0.08	0.02	0.10	0.00	0.02	0.02		225.06	225.06	0.00	0.00	225.12

Worker	0.18	0.13	1.60	0.01	0.70	0.03	0.73	0.01	0.02	0.03		436.28	436.28	0.02	0.00	436.62
Total	0.25	0.82	2.11	0.01	0.78	0.05	0.83	0.01	0.04	0.05		661.34	661.34	0.02	0.00	661.74

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Integrate Below Market Rate Housing
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	21.48	15.20	75.96	0.17	17.22	0.85	18.07	0.26	0.74	1.01		12,357.70	12,357.70	0.50	0.00	12,368.25
Unmitigated	29.85	19.22	98.87	0.26	26.50	1.25	27.75	0.41	1.08	1.49		18,527.14	18,527.14	0.71	0.00	18,542.00
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
City Park	1,070.16	1,070.16	1070.16	1,527,518	992,837
Condo/Townhouse	2,579.64	2,801.64	2375.40	4,301,477	2,795,821
Condo/Townhouse High Rise	8,482.60	9,212.60	7811.00	14,144,495	9,193,465
Hotel	735.00	736.50	535.50	984,299	639,762
Regional Shopping Center	11,265.00	13,110.00	6621.00	14,265,920	9,272,388
Single Family Housing	8,096.22	8,527.68	7419.42	13,428,567	8,728,136
Total	32,228.62	35,458.58	25,832.48	48,652,276	31,622,409

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

City Park	8.90	13.30	7.40	33.00	48.00	19.00
Condo/Townhouse	12.70	7.00	9.50	40.20	19.20	40.60
Condo/Townhouse High Rise	12.70	7.00	9.50	40.20	19.20	40.60
Hotel	8.90	13.30	7.40	19.40	61.60	19.00
Regional Shopping Center	8.90	13.30	7.40	16.30	64.70	19.00
Single Family Housing	12.70	7.00	9.50	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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		2,549.07	2,549.07	0.12	0.04	2,565.04
Electricity Unmitigated						0.00	0.00		0.00	0.00		2,565.21	2,565.21	0.12	0.04	2,581.29
NaturalGas Mitigated	0.24	2.05	0.95	0.01		0.00	0.17		0.00	0.17		2,365.59	2,365.59	0.05	0.04	2,379.98
NaturalGas Unmitigated	0.25	2.15	1.00	0.01		0.00	0.17		0.00	0.17		2,472.20	2,472.20	0.05	0.05	2,487.25
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					
City Park	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
Condo/Townhouse	5.68792e+006	0.03	0.26	0.11	0.00		0.00	0.02		0.00	0.02		303.53	303.53	0.01	0.01	305.38
Condo/Townhouse High Rise	1.87035e+007	0.10	0.86	0.37	0.01		0.00	0.07		0.00	0.07		998.09	998.09	0.02	0.02	1,004.17
Hotel	3.89535e+006	0.02	0.19	0.16	0.00		0.00	0.01		0.00	0.01		207.87	207.87	0.00	0.00	209.14
Regional Shopping Center	153750	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		8.20	8.20	0.00	0.00	8.25

Single Family Housing	1.78867e+007	0.10	0.82	0.35	0.01		0.00	0.07		0.00	0.07		954.50	954.50	0.02	0.02	960.31
Total		0.25	2.14	1.00	0.02		0.00	0.17		0.00	0.17		2,472.19	2,472.19	0.05	0.05	2,487.25

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	tons/yr										MT/yr					
City Park	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
Condo/Townhouse	5.44109e+006	0.03	0.25	0.11	0.00		0.00	0.02		0.00	0.02		290.36	290.36	0.01	0.01	292.12
Condo/Townhouse High Rise	1.78919e+007	0.10	0.82	0.35	0.01		0.00	0.07		0.00	0.07		954.78	954.78	0.02	0.02	960.59
Hotel	3.72863e+006	0.02	0.18	0.15	0.00		0.00	0.01		0.00	0.01		198.97	198.97	0.00	0.00	200.18
Regional Shopping Center	150000	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00		8.00	8.00	0.00	0.00	8.05
Single Family Housing	1.71178e+007	0.09	0.79	0.34	0.01		0.00	0.06		0.00	0.06		913.47	913.47	0.02	0.02	919.03
Total		0.24	2.05	0.96	0.02		0.00	0.16		0.00	0.16		2,365.58	2,365.58	0.05	0.05	2,379.97

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			
City Park	0					0.00	0.00	0.00	0.00
Condo/Townhouse	939884					273.38	0.01	0.00	275.10
Condo/Townhouse High Rise	3.09061e+006					898.97	0.04	0.02	904.60
Hotel	1.0988e+006					319.61	0.01	0.01	321.61
Regional Shopping Center	960000					279.24	0.01	0.00	280.99
Single Family Housing	2.72978e+006					794.01	0.04	0.01	798.99
Total						2,565.21	0.11	0.04	2,581.29

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
City Park	0					0.00	0.00	0.00	0.00
Condo/Townhouse	936836					272.50	0.01	0.00	274.21
Condo/Townhouse High Rise	3.08059e+006					896.05	0.04	0.02	901.67
Hotel	1.08034e+006					314.24	0.01	0.01	316.21
Regional Shopping Center	946575					275.33	0.01	0.00	277.06
Single Family Housing	2.71923e+006					790.94	0.04	0.01	795.90
Total						2,549.06	0.11	0.04	2,565.05

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- 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	8.46	0.24	20.94	0.00		0.00	0.18		0.00	0.18		956.18	956.18	0.05	0.02	962.48
Unmitigated	8.46	0.24	20.94	0.00		0.00	0.18		0.00	0.18		956.18	956.18	0.05	0.02	962.48
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	0.88					0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00
Consumer Products	6.86					0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00
Hearth	0.09	0.00	0.01	0.00		0.00	0.06		0.00	0.06		921.98	921.98	0.02	0.02	927.59
Landscaping	0.63	0.24	20.93	0.00		0.00	0.12		0.00	0.12		34.20	34.20	0.03	0.00	34.89
Total	8.46	0.24	20.94	0.00		0.00	0.18		0.00	0.18		956.18	956.18	0.05	0.02	962.48

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	0.88					0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00
Consumer Products	6.86					0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00
Hearth	0.09	0.00	0.01	0.00		0.00	0.06		0.00	0.06		921.98	921.98	0.02	0.02	927.59
Landscaping	0.63	0.24	20.93	0.00		0.00	0.12		0.00	0.12		34.20	34.20	0.03	0.00	34.89
Total	8.46	0.24	20.94	0.00		0.00	0.18		0.00	0.18		956.18	956.18	0.05	0.02	962.48

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

Use Water Efficient Irrigation System

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					606.97	2.46	0.07	680.56
Unmitigated					702.42	3.07	0.09	794.06
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			
City Park	0 / 46.2636					149.50	0.01	0.00	150.44
Condo/Townhouse	37.4777 / 20.808					209.61	1.15	0.03	243.74
Condo/Townhouse	39.1326 /					218.86	1.20	0.03	254.50
High Rise	21.7268								
Hotel	4.30652 /					20.45	0.13	0.00	24.34
	1.26466								
Regional Shopping Center	0.805899 /					3.83	0.02	0.00	4.56
	0.236661								
Single Family Housing	17.9113 /					100.18	0.55	0.02	116.49
	9.94456								
Total						702.43	3.06	0.08	794.07

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
City Park	0 / 43.4415					140.38	0.01	0.00	141.26
Condo/Townhouse	29.9821 /					177.03	0.92	0.03	204.39
	19.5387								
Condo/Townhouse	31.3061 /					184.85	0.96	0.03	213.42
High Rise	20.4015								

Hotel	3.44522 / 1.18751					16.92	0.11	0.00	20.05
Regional Shopping Center	0.644719 / 0.222225					3.17	0.02	0.00	3.75
Single Family Housing	14.3291 / 9.33794					84.61	0.44	0.01	97.68
Total						606.96	2.46	0.07	680.55

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					#####	36.59	0.00	#####
Unmitigated					#####	36.59	0.00	#####
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			
City Park	2.41					-37,152.45	0.02	0.00	-37,151.93
Condo/Townhouse	495.5					#####	5.10	0.00	#####
Condo/Townhouse High Rise	1629.3					#####	16.78	0.00	#####
Hotel	54.8					#####	0.56	0.00	#####
Regional Shopping Center	427.1					#####	4.40	0.00	#####
Single Family Housing	944.1					#####	9.72	0.00	#####
Total						-	36.58	0.00	-
						54,776.133			54,775.36

9.0 Vegetation

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons				MT			
Unmitigated					3,563.47	0.00	0.00	3,563.47
Total	NA	NA	NA	NA	NA	NA	NA	NA

9.1 Vegetation Land Change

Vegetation Type

	Initial/Final	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	Acres	tons				MT			
Grassland	120.8 / 20.47					-432.42	0.00	0.00	-432.42
Others	133.15 / 35.58					0.00	0.00	0.00	0.00
Scrub	58.27 / 35.16					-330.47	0.00	0.00	-330.47
Trees	60.58 / 47.65					-1,435.23	0.00	0.00	-1,435.23
Wetlands	31.45 / 29					0.00	0.00	0.00	0.00
Total						-2,198.12	0.00	0.00	-2,198.12

9.1 Net New Trees

Species Class

	Number of Trees	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
		tons				MT			
Juniper	100					24.20	0.00	0.00	24.20

Miscellaneous	8000					5,664.00	0.00	0.00	5,664.00
Mixed Hardwood	100					73.40	0.00	0.00	73.40
Total						5,761.60	0.00	0.00	5,761.60