

Valentine St. Apartments
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	100.00	Space	0.90	40,000.00	0
Apartments Mid Rise	120.00	Dwelling Unit	3.16	120,000.00	343
Supermarket	25.00	1000sqft	0.57	25,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2015
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Architectural Coating - Half the walls are pre-fabricated and pre-painted, thus lowering the residential square foot to coat.

Land Use Change -

Sequestration -

Operational Off-Road Equipment - A forklift is needed to unload new product at the supermarket.

Grading -

Construction Off-road Equipment Mitigation - Cleaner engines to be used for some construction equipment.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Interior	243,000.00	150,000.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblGrading	MaterialExported	0.00	16.00
tblGrading	MaterialExported	0.00	16.00
tblGrading	MaterialImported	0.00	16.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblSequestration	NumberOfNewTrees	0.00	12.00

2.0 Emissions Summary

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	1.2243	0.0248	2.0163	1.2600e-003		0.1213	0.1213		0.1213	0.1213	12.7463	26.5186	39.2648	0.0401	8.7000e-004	40.3756
Energy	7.4600e-003	0.0654	0.0393	4.1000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	997.8094	997.8094	0.0232	5.8700e-003	1,000.1165
Mobile	2.3575	5.2251	21.8538	0.0381	2.5513	0.0682	2.6195	0.6826	0.0626	0.7452	0.0000	3,118.2534	3,118.2534	0.1425	0.0000	3,121.2460
Offroad	7.8400e-003	0.0674	0.0415	5.0000e-005		5.6600e-003	5.6600e-003		5.2000e-003	5.2000e-003	0.0000	4.7282	4.7282	1.4100e-003	0.0000	4.7578
Waste						0.0000	0.0000		0.0000	0.0000	39.8268	0.0000	39.8268	2.3537	0.0000	89.2545
Water						0.0000	0.0000		0.0000	0.0000	3.4581	110.1402	113.5983	0.3578	8.9200e-003	123.8785
Total	3.5971	5.3827	23.9509	0.0398	2.5513	0.2003	2.7516	0.6826	0.1943	0.8769	56.0313	4,257.4497	4,313.4809	2.9188	0.0157	4,379.6290

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	0.8339	0.0149	1.2625	7.0000e-005		8.5700e-003	8.5700e-003		8.5500e-003	8.5500e-003	0.0000	27.9594	27.9594	2.6100e-003	4.8000e-004	28.1616
Energy	7.4600e-003	0.0654	0.0393	4.1000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	997.8094	997.8094	0.0232	5.8700e-003	1,000.1165
Mobile	2.1874	3.9336	17.6896	0.0266	1.7446	0.0487	1.7933	0.4668	0.0447	0.5115	0.0000	2,178.4219	2,178.4219	0.1043	0.0000	2,180.6128
Offroad	7.8400e-003	0.0674	0.0415	5.0000e-005		5.6600e-003	5.6600e-003		5.2000e-003	5.2000e-003	0.0000	4.7282	4.7282	1.4100e-003	0.0000	4.7578
Waste						0.0000	0.0000		0.0000	0.0000	39.8268	0.0000	39.8268	2.3537	0.0000	89.2545
Water						0.0000	0.0000		0.0000	0.0000	2.7665	94.3302	97.0967	0.2863	7.1600e-003	105.3289
Total	3.0366	4.0812	19.0329	0.0272	1.7446	0.0680	1.8127	0.4668	0.0636	0.5304	42.5933	3,303.2490	3,345.8423	2.7716	0.0135	3,408.2320

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	15.80	25.43	20.71	31.87	31.62	68.86	34.33	31.62	69.95	40.11	23.98	22.52	22.54	5.09	13.73	22.29

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	7.6560
Vegetation Land Change	-17.8003
Total	-10.1443

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/4/2015	5	5	
3	Grading	Grading	2/5/2015	2/16/2015	5	8	
4	Building Construction	Building Construction	2/17/2015	1/4/2016	5	230	
5	Paving	Paving	1/5/2016	1/28/2016	5	18	
6	Architectural Coating	Architectural Coating	1/29/2016	2/23/2016	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 150,000; Residential Outdoor: 81,000; Non-Residential Indoor: 97,500; Non-Residential Outdoor: 32,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	2.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	2.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	23.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229	0.0000	37.4413	37.4413	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229	0.0000	37.4413	37.4413	0.0102	0.0000	37.6544

3.2 Demolition - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	9.8000e-004	0.0102	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5970	1.5970	9.0000e-005	0.0000	1.5989
Total	6.7000e-004	9.8000e-004	0.0102	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5970	1.5970	9.0000e-005	0.0000	1.5989

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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229	0.0000	37.4412	37.4412	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229	0.0000	37.4412	37.4412	0.0102	0.0000	37.6544

3.2 Demolition - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	9.8000e-004	0.0102	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5970	1.5970	9.0000e-005	0.0000	1.5989
Total	6.7000e-004	9.8000e-004	0.0102	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5970	1.5970	9.0000e-005	0.0000	1.5989

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1422	0.1066	1.0000e-004		7.7200e-003	7.7200e-003		7.1000e-003	7.1000e-003	0.0000	9.3253	9.3253	2.7800e-003	0.0000	9.3837
Total	0.0132	0.1422	0.1066	1.0000e-004	0.0452	7.7200e-003	0.0529	0.0248	7.1000e-003	0.0319	0.0000	9.3253	9.3253	2.7800e-003	0.0000	9.3837

3.3 Site Preparation - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	3.3000e-004	2.3000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0681	0.0681	0.0000	0.0000	0.0681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.9000e-004	3.0600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4791	0.4791	3.0000e-005	0.0000	0.4797
Total	2.2000e-004	6.2000e-004	3.2900e-003	1.0000e-005	5.1000e-004	1.0000e-005	5.2000e-004	1.3000e-004	0.0000	1.5000e-004	0.0000	0.5472	0.5472	3.0000e-005	0.0000	0.5478

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					0.0176	0.0000	0.0176	9.6800e-003	0.0000	9.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1422	0.1066	1.0000e-004		7.7200e-003	7.7200e-003		7.1000e-003	7.1000e-003	0.0000	9.3253	9.3253	2.7800e-003	0.0000	9.3837
Total	0.0132	0.1422	0.1066	1.0000e-004	0.0176	7.7200e-003	0.0253	9.6800e-003	7.1000e-003	0.0168	0.0000	9.3253	9.3253	2.7800e-003	0.0000	9.3837

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	3.3000e-004	2.3000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0681	0.0681	0.0000	0.0000	0.0681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.9000e-004	3.0600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4791	0.4791	3.0000e-005	0.0000	0.4797
Total	2.2000e-004	6.2000e-004	3.2900e-003	1.0000e-005	5.1000e-004	1.0000e-005	5.2000e-004	1.3000e-004	0.0000	1.5000e-004	0.0000	0.5472	0.5472	3.0000e-005	0.0000	0.5478

3.4 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1617	0.1067	1.2000e-004		9.3100e-003	9.3100e-003		8.5700e-003	8.5700e-003	0.0000	11.3544	11.3544	3.3900e-003	0.0000	11.4256
Total	0.0153	0.1617	0.1067	1.2000e-004	0.0262	9.3100e-003	0.0355	0.0135	8.5700e-003	0.0220	0.0000	11.3544	11.3544	3.3900e-003	0.0000	11.4256

3.4 Grading - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	3.3000e-004	2.3000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0681	0.0681	0.0000	0.0000	0.0681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	3.9000e-004	4.0800e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6388	0.6388	4.0000e-005	0.0000	0.6396
Total	2.9000e-004	7.2000e-004	4.3100e-003	1.0000e-005	6.8000e-004	2.0000e-005	6.8000e-004	1.7000e-004	1.0000e-005	1.9000e-004	0.0000	0.7069	0.7069	4.0000e-005	0.0000	0.7077

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					0.0102	0.0000	0.0102	5.2500e-003	0.0000	5.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1617	0.1067	1.2000e-004		9.3100e-003	9.3100e-003		8.5700e-003	8.5700e-003	0.0000	11.3544	11.3544	3.3900e-003	0.0000	11.4256
Total	0.0153	0.1617	0.1067	1.2000e-004	0.0102	9.3100e-003	0.0195	5.2500e-003	8.5700e-003	0.0138	0.0000	11.3544	11.3544	3.3900e-003	0.0000	11.4256

3.4 Grading - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	3.3000e-004	2.3000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0681	0.0681	0.0000	0.0000	0.0681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	3.9000e-004	4.0800e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6388	0.6388	4.0000e-005	0.0000	0.6396
Total	2.9000e-004	7.2000e-004	4.3100e-003	1.0000e-005	6.8000e-004	2.0000e-005	6.8000e-004	1.7000e-004	1.0000e-005	1.9000e-004	0.0000	0.7069	0.7069	4.0000e-005	0.0000	0.7077

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4171	3.4234	2.1369	3.0600e-003		0.2413	0.2413		0.2269	0.2269	0.0000	278.1535	278.1535	0.0698	0.0000	279.6191
Total	0.4171	3.4234	2.1369	3.0600e-003		0.2413	0.2413		0.2269	0.2269	0.0000	278.1535	278.1535	0.0698	0.0000	279.6191

3.5 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0264	0.2682	0.3282	5.7000e-004	0.0161	4.5100e-003	0.0206	4.6000e-003	4.1400e-003	8.7500e-003	0.0000	52.2550	52.2550	4.1000e-004	0.0000	52.2637
Worker	0.0565	0.0828	0.8598	1.7100e-003	0.1388	1.2400e-003	0.1401	0.0369	1.1400e-003	0.0380	0.0000	134.7226	134.7226	7.6100e-003	0.0000	134.8825
Total	0.0829	0.3510	1.1881	2.2800e-003	0.1550	5.7500e-003	0.1607	0.0415	5.2800e-003	0.0468	0.0000	186.9775	186.9775	8.0200e-003	0.0000	187.1461

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	0.4171	3.4234	2.1369	3.0600e-003		0.2413	0.2413		0.2269	0.2269	0.0000	278.1532	278.1532	0.0698	0.0000	279.6188
Total	0.4171	3.4234	2.1369	3.0600e-003		0.2413	0.2413		0.2269	0.2269	0.0000	278.1532	278.1532	0.0698	0.0000	279.6188

3.5 Building Construction - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0264	0.2682	0.3282	5.7000e-004	0.0161	4.5100e-003	0.0206	4.6000e-003	4.1400e-003	8.7500e-003	0.0000	52.2550	52.2550	4.1000e-004	0.0000	52.2637
Worker	0.0565	0.0828	0.8598	1.7100e-003	0.1388	1.2400e-003	0.1401	0.0369	1.1400e-003	0.0380	0.0000	134.7226	134.7226	7.6100e-003	0.0000	134.8825
Total	0.0829	0.3510	1.1881	2.2800e-003	0.1550	5.7500e-003	0.1607	0.0415	5.2800e-003	0.0468	0.0000	186.9775	186.9775	8.0200e-003	0.0000	187.1461

3.5 Building Construction - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4100e-003	0.0285	0.0185	3.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003	0.0000	2.4215	2.4215	6.0000e-004	0.0000	2.4342
Total	3.4100e-003	0.0285	0.0185	3.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003	0.0000	2.4215	2.4215	6.0000e-004	0.0000	2.4342

3.5 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	2.0800e-003	2.6800e-003	0.0000	1.4000e-004	3.0000e-005	1.7000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4533	0.4533	0.0000	0.0000	0.4534
Worker	4.5000e-004	6.6000e-004	6.8100e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1409	1.1409	6.0000e-005	0.0000	1.1422
Total	6.5000e-004	2.7400e-003	9.4900e-003	1.0000e-005	1.3600e-003	4.0000e-005	1.4000e-003	3.6000e-004	4.0000e-005	4.0000e-004	0.0000	1.5943	1.5943	6.0000e-005	0.0000	1.5956

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	3.4100e-003	0.0285	0.0185	3.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003	0.0000	2.4215	2.4215	6.0000e-004	0.0000	2.4342
Total	3.4100e-003	0.0285	0.0185	3.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003	0.0000	2.4215	2.4215	6.0000e-004	0.0000	2.4342

3.5 Building Construction - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	2.0800e-003	2.6800e-003	0.0000	1.4000e-004	3.0000e-005	1.7000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4533	0.4533	0.0000	0.0000	0.4534
Worker	4.5000e-004	6.6000e-004	6.8100e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1409	1.1409	6.0000e-005	0.0000	1.1422
Total	6.5000e-004	2.7400e-003	9.4900e-003	1.0000e-005	1.3600e-003	4.0000e-005	1.4000e-003	3.6000e-004	4.0000e-005	4.0000e-004	0.0000	1.5943	1.5943	6.0000e-005	0.0000	1.5956

3.6 Paving - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1651	0.1131	1.7000e-004		9.9600e-003	9.9600e-003		9.1800e-003	9.1800e-003	0.0000	15.5310	15.5310	4.5600e-003	0.0000	15.6268
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0162	0.1651	0.1131	1.7000e-004		9.9600e-003	9.9600e-003		9.1800e-003	9.1800e-003	0.0000	15.5310	15.5310	4.5600e-003	0.0000	15.6268

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	1.0600e-003	0.0110	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8502	1.8502	1.0000e-004	0.0000	1.8523
Total	7.2000e-004	1.0600e-003	0.0110	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8502	1.8502	1.0000e-004	0.0000	1.8523

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	0.0162	0.1651	0.1131	1.7000e-004		9.9600e-003	9.9600e-003		9.1800e-003	9.1800e-003	0.0000	15.5310	15.5310	4.5600e-003	0.0000	15.6268
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0162	0.1651	0.1131	1.7000e-004		9.9600e-003	9.9600e-003		9.1800e-003	9.1800e-003	0.0000	15.5310	15.5310	4.5600e-003	0.0000	15.6268

3.6 Paving - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	1.0600e-003	0.0110	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8502	1.8502	1.0000e-004	0.0000	1.8523
Total	7.2000e-004	1.0600e-003	0.0110	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8502	1.8502	1.0000e-004	0.0000	1.8523

3.7 Architectural Coating - 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					
Archit. Coating	1.1147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	2.2979	2.2979	2.7000e-004	0.0000	2.3036
Total	1.1180	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	2.2979	2.2979	2.7000e-004	0.0000	2.3036

3.7 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	1.1700e-003	0.0122	3.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	2.0352	2.0352	1.1000e-004	0.0000	2.0375
Total	8.0000e-004	1.1700e-003	0.0122	3.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	2.0352	2.0352	1.1000e-004	0.0000	2.0375

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	1.1147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	2.2979	2.2979	2.7000e-004	0.0000	2.3036
Total	1.1180	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	2.2979	2.2979	2.7000e-004	0.0000	2.3036

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	1.1700e-003	0.0122	3.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	2.0352	2.0352	1.1000e-004	0.0000	2.0375
Total	8.0000e-004	1.1700e-003	0.0122	3.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	2.0352	2.0352	1.1000e-004	0.0000	2.0375

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1874	3.9336	17.6896	0.0266	1.7446	0.0487	1.7933	0.4668	0.0447	0.5115	0.0000	2,178.4219	2,178.4219	0.1043	0.0000	2,180.6128
Unmitigated	2.3575	5.2251	21.8538	0.0381	2.5513	0.0682	2.6195	0.6826	0.0626	0.7452	0.0000	3,118.2534	3,118.2534	0.1425	0.0000	3,121.2460

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	790.80	859.20	728.40	2,705,213	1,849,861
Enclosed Parking Structure	0.00	0.00	0.00		
Supermarket	2,556.00	4,439.75	4161.00	4,030,182	2,755,892
Total	3,346.80	5,298.95	4,889.40	6,735,395	4,605,753

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.514499	0.060499	0.179997	0.139763	0.042095	0.006675	0.015446	0.029572	0.001914	0.002508	0.004341	0.000594	0.002098

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

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						0.0000	0.0000		0.0000	0.0000	0.0000	924.0005	924.0005	0.0218	4.5200e-003	925.8585
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	924.0005	924.0005	0.0218	4.5200e-003	925.8585
NaturalGas Mitigated	7.4600e-003	0.0654	0.0393	4.1000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	73.8089	73.8089	1.4100e-003	1.3500e-003	74.2581
NaturalGas Unmitigated	7.4600e-003	0.0654	0.0393	4.1000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	73.8089	73.8089	1.4100e-003	1.3500e-003	74.2581

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Supermarket	564750	3.0500e-003	0.0277	0.0233	1.7000e-004		2.1000e-003	2.1000e-003		2.1000e-003	2.1000e-003	0.0000	30.1372	30.1372	5.8000e-004	5.5000e-004	30.3206
Apartments Mid Rise	818376	4.4100e-003	0.0377	0.0161	2.4000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	43.6717	43.6717	8.4000e-004	8.0000e-004	43.9374
Total		7.4600e-003	0.0654	0.0393	4.1000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	73.8089	73.8089	1.4200e-003	1.3500e-003	74.2581

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Supermarket	564750	3.0500e-003	0.0277	0.0233	1.7000e-004		2.1000e-003	2.1000e-003		2.1000e-003	2.1000e-003	0.0000	30.1372	30.1372	5.8000e-004	5.5000e-004	30.3206
Apartments Mid Rise	818376	4.4100e-003	0.0377	0.0161	2.4000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	43.6717	43.6717	8.4000e-004	8.0000e-004	43.9374
Total		7.4600e-003	0.0654	0.0393	4.1000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	73.8089	73.8089	1.4200e-003	1.3500e-003	74.2581

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	417752	232.6720	5.5000e-003	1.1400e-003	233.1399
Enclosed Parking Structure	262000	145.9239	3.4500e-003	7.1000e-004	146.2173
Supermarket	979250	545.4046	0.0129	2.6700e-003	546.5013
Total		924.0005	0.0218	4.5200e-003	925.8585

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	417752	232.6720	5.5000e-003	1.1400e-003	233.1399
Enclosed Parking Structure	262000	145.9239	3.4500e-003	7.1000e-004	146.2173
Supermarket	979250	545.4046	0.0129	2.6700e-003	546.5013
Total		924.0005	0.0218	4.5200e-003	925.8585

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	0.8339	0.0149	1.2625	7.0000e-005		8.5700e-003	8.5700e-003		8.5500e-003	8.5500e-003	0.0000	27.9594	27.9594	2.6100e-003	4.8000e-004	28.1616
Unmitigated	1.2243	0.0248	2.0163	1.2600e-003		0.1213	0.1213		0.1213	0.1213	12.7463	26.5186	39.2648	0.0401	8.7000e-004	40.3756

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	0.1223					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6685					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3931	9.9700e-003	0.7540	1.2000e-003		0.1146	0.1146		0.1146	0.1146	12.7463	24.4940	37.2403	0.0380	8.7000e-004	38.3067
Landscaping	0.0405	0.0149	1.2624	7.0000e-005		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	2.0246	2.0246	2.1100e-003	0.0000	2.0689
Total	1.2243	0.0248	2.0163	1.2700e-003		0.1213	0.1213		0.1213	0.1213	12.7463	26.5186	39.2649	0.0401	8.7000e-004	40.3756

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	0.1223					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6685					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.6200e-003	0.0000	1.4000e-004	0.0000		1.8100e-003	1.8100e-003		1.7900e-003	1.7900e-003	0.0000	25.9348	25.9348	5.0000e-004	4.8000e-004	26.0927
Landscaping	0.0405	0.0149	1.2624	7.0000e-005		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	2.0246	2.0246	2.1100e-003	0.0000	2.0689
Total	0.8339	0.0149	1.2625	7.0000e-005		8.5700e-003	8.5700e-003		8.5500e-003	8.5500e-003	0.0000	27.9594	27.9594	2.6100e-003	4.8000e-004	28.1616

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	97.0967	0.2863	7.1600e-003	105.3289
Unmitigated	113.5983	0.3578	8.9200e-003	123.8785

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.81848 / 4.92904	89.6818	0.2568	6.4400e-003	97.0720
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	3.08171 / 0.0953105	23.9166	0.1010	2.4800e-003	26.8065
Total		113.5983	0.3578	8.9200e-003	123.8785

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.25479 / 4.92904	77.8454	0.2056	5.1800e-003	83.7667
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	2.46536 / 0.0953105	19.2512	0.0808	1.9800e-003	21.5622
Total		97.0967	0.2863	7.1600e-003	105.3289

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	39.8268	2.3537	0.0000	89.2545
Unmitigated	39.8268	2.3537	0.0000	89.2545

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	55.2	11.2051	0.6622	0.0000	25.1114
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Supermarket	141	28.6217	1.6915	0.0000	64.1431
Total		39.8268	2.3537	0.0000	89.2545

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	55.2	11.2051	0.6622	0.0000	25.1114
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Supermarket	141	28.6217	1.6915	0.0000	64.1431
Total		39.8268	2.3537	0.0000	89.2545

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	2.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	7.8400e-003	0.0674	0.0415	5.0000e-005		5.6600e-003	5.6600e-003		5.2000e-003	5.2000e-003	0.0000	4.7282	4.7282	1.4100e-003	0.0000	4.7578
Total	7.8400e-003	0.0674	0.0415	5.0000e-005		5.6600e-003	5.6600e-003		5.2000e-003	5.2000e-003	0.0000	4.7282	4.7282	1.4100e-003	0.0000	4.7578

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-10.1443	0.0000	0.0000	-10.1443

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	4.63 / 0.5	-17.8003	0.0000	0.0000	-17.8003
Total		-17.8003	0.0000	0.0000	-17.8003

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Pine	12	7.6560	0.0000	0.0000	7.6560
Total		7.6560	0.0000	0.0000	7.6560