

Appendix C
CalEEMod GHG Emissions Output

740 W San Carlos - GHGs
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	129.00	Space	0.00	61,010.00	0
Apartments Mid Rise	95.00	Dwelling Unit	1.06	130,145.00	272
Strip Mall	2.88	1000sqft	0.00	2,885.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	445	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Actual PG&E Rate.

Land Use - Lot acreage from plan drawings. Residential sf includes common area and amenities.

Construction Phase - Anticipated schedule provided by applicant

Off-road Equipment - Proposed equipment list provided by applicant

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Trips and VMT - Bldg: 222 CY cement @ 16 CY/truck = 28 one-way trips. 0.5 mile trip lengths to calculate risk from on- and near-site vehicle travel.

Demolition - 4,228 sf building demo

Grading - 45,000 CY soil import, 90,000 CY soil export.

Architectural Coating -

Vehicle Trips - Actual trip rates based on traffic report and including trip reductions for mixed use/transit/pass-by.

Woodstoves - No fireplaces or wood stoves.

Construction Off-road Equipment Mitigation - Tier 2 engines for equip > 50hp. BAAQMD BMPs.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceDayYear	4.29	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	92.40	0.00
tblFireplaces	NumberGas	52.25	0.00
tblFireplaces	NumberNoFireplace	29.45	0.00
tblFireplaces	NumberWood	13.30	0.00
tblLandUse	LandUseSquareFeet	51,600.00	61,010.00
tblLandUse	LandUseSquareFeet	95,000.00	130,145.00
tblLandUse	LandUseSquareFeet	2,880.00	2,885.00
tblLandUse	LotAcreage	1.16	0.00
tblLandUse	LotAcreage	2.50	1.06
tblLandUse	LotAcreage	0.07	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	445
tblTripsAndVMT	HaulingTripNumber	0.00	16,875.00
tblTripsAndVMT	HaulingTripNumber	0.00	28.00
tblVehicleTrips	WD_TR	6.59	6.42
tblVehicleTrips	WD_TR	44.32	34.40
tblWoodstoves	NumberCatalytic	0.48	0.00
tblWoodstoves	NumberNoncatalytic	0.48	0.00
tblWoodstoves	WoodstoveDayYear	10.82	0.00
tblWoodstoves	WoodstoveWoodMass	954.80	0.00

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	0.9065	8.5800e-003	0.7239	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1546	1.1546	1.2400e-003	0.0000	1.1805
Energy	4.2000e-003	0.0359	0.0154	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	199.0199	199.0199	0.0111	2.8900e-003	200.1465
Mobile	0.5164	1.0993	5.0296	7.8100e-003	0.5646	0.0157	0.5804	0.1509	0.0144	0.1654	0.0000	652.8642	652.8642	0.0327	0.0000	653.5508
Waste						0.0000	0.0000		0.0000	0.0000	9.4837	0.0000	9.4837	0.5605	0.0000	21.2537
Water						0.0000	0.0000		0.0000	0.0000	2.0314	9.8425	11.8738	0.2093	5.0600e-003	17.8371
Total	1.4270	1.1438	5.7689	8.0800e-003	0.5646	0.0225	0.5871	0.1509	0.0212	0.1721	11.5151	862.8812	874.3963	0.8147	7.9500e-003	893.9686

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	0.9065	8.5800e-003	0.7239	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1546	1.1546	1.2400e-003	0.0000	1.1805
Energy	4.2000e-003	0.0359	0.0154	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	199.0199	199.0199	0.0111	2.8900e-003	200.1465
Mobile	0.5164	1.0993	5.0296	7.8100e-003	0.5646	0.0157	0.5804	0.1509	0.0144	0.1654	0.0000	652.8642	652.8642	0.0327	0.0000	653.5508
Waste						0.0000	0.0000		0.0000	0.0000	9.4837	0.0000	9.4837	0.5605	0.0000	21.2537
Water						0.0000	0.0000		0.0000	0.0000	2.0314	9.8425	11.8738	0.2092	5.0500e-003	17.8339
Total	1.4270	1.1438	5.7689	8.0800e-003	0.5646	0.0225	0.5871	0.1509	0.0212	0.1721	11.5151	862.8812	874.3963	0.8147	7.9400e-003	893.9653

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00

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	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 263,544; Residential Outdoor: 87,848; Non-Residential Indoor: 95,843; Non-Residential Outdoor: 31,948 (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	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	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	5	13.00	0.00	19.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	16,875.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	95.00	21.00	28.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0800e-003	0.0000	2.0800e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
Total	0.0291	0.2826	0.2150	2.4000e-004	2.0800e-003	0.0175	0.0195	3.2000e-004	0.0163	0.0167	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827

3.2 Demolition - 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	2.1000e-004	2.8300e-003	2.2200e-003	1.0000e-005	1.6000e-004	4.0000e-005	2.0000e-004	4.0000e-005	3.0000e-005	8.0000e-005	0.0000	0.6510	0.6510	0.0000	0.0000	0.6511
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	4.8000e-004	6.8000e-004	6.6100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0429	1.0429	6.0000e-005	0.0000	1.0441
Total	6.9000e-004	3.5100e-003	8.8300e-003	2.0000e-005	1.3400e-003	5.0000e-005	1.3900e-003	3.5000e-004	4.0000e-005	4.0000e-004	0.0000	1.6939	1.6939	6.0000e-005	0.0000	1.6952

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					9.4000e-004	0.0000	9.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
Total	0.0291	0.2826	0.2150	2.4000e-004	9.4000e-004	0.0175	0.0184	7.0000e-005	0.0163	0.0164	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826

3.2 Demolition - 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	2.1000e-004	2.8300e-003	2.2200e-003	1.0000e-005	1.6000e-004	4.0000e-005	2.0000e-004	4.0000e-005	3.0000e-005	8.0000e-005	0.0000	0.6510	0.6510	0.0000	0.0000	0.6511
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	4.8000e-004	6.8000e-004	6.6100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0429	1.0429	6.0000e-005	0.0000	1.0441
Total	6.9000e-004	3.5100e-003	8.8300e-003	2.0000e-005	1.3400e-003	5.0000e-005	1.3900e-003	3.5000e-004	4.0000e-005	4.0000e-004	0.0000	1.6939	1.6939	6.0000e-005	0.0000	1.6952

3.3 Site Preparation - 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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0258	0.0165	2.0000e-005		1.4000e-003	1.4000e-003		1.2900e-003	1.2900e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260
Total	2.4400e-003	0.0258	0.0165	2.0000e-005	5.8000e-003	1.4000e-003	7.2000e-003	2.9500e-003	1.2900e-003	4.2400e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260

3.3 Site Preparation - 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	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	0.0000
Worker	3.0000e-005	4.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0642	0.0642	0.0000	0.0000	0.0643	0.0643
Total	3.0000e-005	4.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0642	0.0642	0.0000	0.0000	0.0643	0.0643

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					2.6100e-003	0.0000	2.6100e-003	6.6000e-004	0.0000	6.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0258	0.0165	2.0000e-005		1.4000e-003	1.4000e-003		1.2900e-003	1.2900e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260
Total	2.4400e-003	0.0258	0.0165	2.0000e-005	2.6100e-003	1.4000e-003	4.0100e-003	6.6000e-004	1.2900e-003	1.9500e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260

3.3 Site Preparation - 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	3.0000e-005	4.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0642	0.0642	0.0000	0.0000	0.0643
Total	3.0000e-005	4.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0642	0.0642	0.0000	0.0000	0.0643

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
Total	3.9800e-003	0.0421	0.0273	3.0000e-005	9.8300e-003	2.2800e-003	0.0121	5.0500e-003	2.1000e-003	7.1500e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710

3.4 Grading - 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	0.1840	2.5167	1.9745	6.3300e-003	0.1425	0.0328	0.1754	0.0392	0.0302	0.0693	0.0000	578.1663	578.1663	4.2900e-003	0.0000	578.2565
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	6.0000e-005	8.0000e-005	8.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1284	0.1284	1.0000e-005	0.0000	0.1285
Total	0.1841	2.5168	1.9753	6.3300e-003	0.1427	0.0328	0.1755	0.0392	0.0302	0.0694	0.0000	578.2947	578.2947	4.3000e-003	0.0000	578.3850

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					4.4200e-003	0.0000	4.4200e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
Total	3.9800e-003	0.0421	0.0273	3.0000e-005	4.4200e-003	2.2800e-003	6.7000e-003	1.1400e-003	2.1000e-003	3.2400e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710

3.4 Grading - 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	0.1840	2.5167	1.9745	6.3300e-003	0.1425	0.0328	0.1754	0.0392	0.0302	0.0693	0.0000	578.1663	578.1663	4.2900e-003	0.0000	578.2565
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	6.0000e-005	8.0000e-005	8.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1284	0.1284	1.0000e-005	0.0000	0.1285
Total	0.1841	2.5168	1.9753	6.3300e-003	0.1427	0.0328	0.1755	0.0392	0.0302	0.0694	0.0000	578.2947	578.2947	4.3000e-003	0.0000	578.3850

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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527
Total	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527

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	3.1000e-004	4.1800e-003	3.2800e-003	1.0000e-005	2.4000e-004	5.0000e-005	2.9000e-004	6.0000e-005	5.0000e-005	1.2000e-004	0.0000	0.9593	0.9593	1.0000e-005	0.0000	0.9595
Vendor	0.0249	0.2097	0.2839	5.0000e-004	0.0136	3.1400e-003	0.0167	3.8900e-003	2.8900e-003	6.7800e-003	0.0000	45.4137	45.4137	3.6000e-004	0.0000	45.4214
Worker	0.0354	0.0497	0.4830	1.0000e-003	0.0865	6.9000e-004	0.0872	0.0230	6.3000e-004	0.0236	0.0000	76.2123	76.2123	4.0700e-003	0.0000	76.2978
Total	0.0606	0.2636	0.7702	1.5100e-003	0.1003	3.8800e-003	0.1042	0.0270	3.5700e-003	0.0305	0.0000	122.5853	122.5853	4.4400e-003	0.0000	122.6787

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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525
Total	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525

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	3.1000e-004	4.1800e-003	3.2800e-003	1.0000e-005	2.4000e-004	5.0000e-005	2.9000e-004	6.0000e-005	5.0000e-005	1.2000e-004	0.0000	0.9593	0.9593	1.0000e-005	0.0000	0.9595
Vendor	0.0249	0.2097	0.2839	5.0000e-004	0.0136	3.1400e-003	0.0167	3.8900e-003	2.8900e-003	6.7800e-003	0.0000	45.4137	45.4137	3.6000e-004	0.0000	45.4214
Worker	0.0354	0.0497	0.4830	1.0000e-003	0.0865	6.9000e-004	0.0872	0.0230	6.3000e-004	0.0236	0.0000	76.2123	76.2123	4.0700e-003	0.0000	76.2978
Total	0.0606	0.2636	0.7702	1.5100e-003	0.1003	3.8800e-003	0.1042	0.0270	3.5700e-003	0.0305	0.0000	122.5853	122.5853	4.4400e-003	0.0000	122.6787

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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457

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	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5215	0.5215	3.0000e-005	0.0000	0.5220
Total	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5215	0.5215	3.0000e-005	0.0000	0.5220

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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457

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	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5215	0.5215	3.0000e-005	0.0000	0.5220
Total	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5215	0.5215	3.0000e-005	0.0000	0.5220

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	1.2493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	1.2512	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798

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	3.5000e-004	5.0000e-004	4.8300e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7621	0.7621	4.0000e-005	0.0000	0.7630
Total	3.5000e-004	5.0000e-004	4.8300e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7621	0.7621	4.0000e-005	0.0000	0.7630

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	1.2493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	1.2512	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798

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	3.5000e-004	5.0000e-004	4.8300e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7621	0.7621	4.0000e-005	0.0000	0.7630
Total	3.5000e-004	5.0000e-004	4.8300e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7621	0.7621	4.0000e-005	0.0000	0.7630

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5164	1.0993	5.0296	7.8100e-003	0.5646	0.0157	0.5804	0.1509	0.0144	0.1654	0.0000	652.8642	652.8642	0.0327	0.0000	653.5508
Unmitigated	0.5164	1.0993	5.0296	7.8100e-003	0.5646	0.0157	0.5804	0.1509	0.0144	0.1654	0.0000	652.8642	652.8642	0.0327	0.0000	653.5508

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	609.90	680.20	576.65	1,373,336	1,373,336
Enclosed Parking with Elevator	0.00	0.00	0.00		
Strip Mall	99.07	121.08	58.84	148,563	148,563
Total	708.97	801.28	635.49	1,521,899	1,521,899

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	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.552333	0.058138	0.185246	0.125281	0.029961	0.004506	0.012317	0.020953	0.001764	0.001280	0.005920	0.000536	0.001765

5.0 Energy Detail

5.1 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	157.4331	157.4331	0.0103	2.1200e-003	158.3066
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	157.4331	157.4331	0.0103	2.1200e-003	158.3066
NaturalGas Mitigated	4.2000e-003	0.0359	0.0154	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5868	41.5868	8.0000e-004	7.6000e-004	41.8399
NaturalGas Unmitigated	4.2000e-003	0.0359	0.0154	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5868	41.5868	8.0000e-004	7.6000e-004	41.8399

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					
Strip Mall	7183.65	4.0000e-005	3.5000e-004	3.0000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3834	0.3834	1.0000e-005	1.0000e-005	0.3857
Apartments Mid Rise	772124	4.1600e-003	0.0356	0.0151	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.2035	41.2035	7.9000e-004	7.6000e-004	41.4542
Enclosed Parking with Elevator	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
Total		4.2000e-003	0.0359	0.0154	2.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	41.5868	41.5868	8.0000e-004	7.7000e-004	41.8399

5.2 Energy by Land Use - NaturalGas

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					
Strip Mall	7183.65	4.0000e-005	3.5000e-004	3.0000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3834	0.3834	1.0000e-005	1.0000e-005	0.3857
Apartments Mid Rise	772124	4.1600e-003	0.0356	0.0151	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.2035	41.2035	7.9000e-004	7.6000e-004	41.4542
Enclosed Parking with Elevator	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
Total		4.2000e-003	0.0359	0.0154	2.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	41.5868	41.5868	8.0000e-004	7.7000e-004	41.8399

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	335023	67.6240	4.4100e-003	9.1000e-004	67.9992
Enclosed Parking with Elevator	411207	83.0016	5.4100e-003	1.1200e-003	83.4622
Strip Mall	33725.7	6.8075	4.4000e-004	9.0000e-005	6.8453
Total		157.4331	0.0103	2.1200e-003	158.3066

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	335023	67.6240	4.4100e-003	9.1000e-004	67.9992
Enclosed Parking with Elevator	411207	83.0016	5.4100e-003	1.1200e-003	83.4622
Strip Mall	33725.7	6.8075	4.4000e-004	9.0000e-005	6.8453
Total		157.4331	0.0103	2.1200e-003	158.3066

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9065	8.5800e-003	0.7239	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1546	1.1546	1.2400e-003	0.0000	1.1805
Unmitigated	0.9065	8.5800e-003	0.7239	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1546	1.1546	1.2400e-003	0.0000	1.1805

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	0.1249					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	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
Landscaping	0.0237	8.5800e-003	0.7239	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1546	1.1546	1.2400e-003	0.0000	1.1805
Total	0.9064	8.5800e-003	0.7239	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1546	1.1546	1.2400e-003	0.0000	1.1805

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	0.1249					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	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
Landscaping	0.0237	8.5800e-003	0.7239	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1546	1.1546	1.2400e-003	0.0000	1.1805
Total	0.9064	8.5800e-003	0.7239	4.0000e-005		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	1.1546	1.1546	1.2400e-003	0.0000	1.1805

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.8738	0.2092	5.0500e-003	17.8339
Unmitigated	11.8738	0.2093	5.0600e-003	17.8371

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.18963 / 3.90216	11.4808	0.2023	4.8900e-003	17.2454
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.213329 / 0.13075	0.3931	6.9700e-003	1.7000e-004	0.5917
Total		11.8738	0.2093	5.0600e-003	17.8371

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.18963 / 3.90216	11.4808	0.2023	4.8800e-003	17.2422
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.213329 / 0.13075	0.3931	6.9700e-003	1.7000e-004	0.5916
Total		11.8738	0.2092	5.0500e-003	17.8339

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4837	0.5605	0.0000	21.2537
Unmitigated	9.4837	0.5605	0.0000	21.2537

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	43.7	8.8707	0.5242	0.0000	19.8798
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.02	0.6130	0.0362	0.0000	1.3739
Total		9.4837	0.5605	0.0000	21.2537

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	43.7	8.8707	0.5242	0.0000	19.8798
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.02	0.6130	0.0362	0.0000	1.3739
Total		9.4837	0.5605	0.0000	21.2537

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

777 W San Carlos - GHGs
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	179.00	Space	0.00	78,475.00	0
Apartments Mid Rise	104.00	Dwelling Unit	1.30	186,225.00	297
Strip Mall	3.15	1000sqft	0.00	3,150.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	445	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Actual PG&E Rate

Land Use - Lot acreage from plan drawings. Residential sf includes common area and amenities.

Construction Phase - Anticipated schedule provided by applicant

Off-road Equipment - Proposed equipment list provided by applicant

Off-road Equipment - Proposed equipment list provided by applicant

Off-road Equipment - Proposed equipment list provided by applicant

Off-road Equipment - Proposed equipment list provided by applicant

Off-road Equipment - Proposed equipment list provided by applicant

Off-road Equipment - Proposed equipment list provided by applicant

Off-road Equipment - Proposed equipment list provided by applicant

Trips and VMT - Bldg: 218 CY cement @ 16 CY/truck = 28 one-way trips. 0.5 mile trip lengths to calculate risk from on- and near-site vehicle travel.

Demolition - 16,675 sf building demo

Grading - 55,000 CY soil import, 106,900 CY soil export.

Architectural Coating -

Construction Off-road Equipment Mitigation - Tier 4 engines for equip > 50hp. BAAQMD BMPs.

Vehicle Trips - Actual trip rates based on traffic report including reductions for mixed-use/transit/pass-by.

Woodstoves - No hearths or wood stoves.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceDayYear	4.29	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	92.40	0.00
tblFireplaces	NumberGas	57.20	0.00
tblFireplaces	NumberNoFireplace	32.24	0.00
tblFireplaces	NumberWood	14.56	0.00
tblLandUse	LandUseSquareFeet	71,600.00	78,475.00
tblLandUse	LandUseSquareFeet	104,000.00	186,225.00
tblLandUse	LotAcreage	1.61	0.00
tblLandUse	LotAcreage	2.74	1.30
tblLandUse	LotAcreage	0.07	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	445
tblTripsAndVMT	HaulingTripNumber	0.00	20,238.00
tblTripsAndVMT	HaulingTripNumber	0.00	28.00
tblVehicleTrips	WD_TR	6.59	6.42
tblVehicleTrips	WD_TR	44.32	34.40
tblWoodstoves	NumberCatalytic	0.52	0.00
tblWoodstoves	NumberNoncatalytic	0.52	0.00
tblWoodstoves	WoodstoveDayYear	10.82	0.00
tblWoodstoves	WoodstoveWoodMass	954.80	0.00

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	1.2457	9.3900e-003	0.7928	4.0000e-005		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1.2647	1.2647	1.3500e-003	0.0000	1.2931
Energy	4.6000e-003	0.0393	0.0169	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	233.7508	233.7508	0.0131	3.3700e-003	235.0722
Mobile	0.5652	1.2033	5.5055	8.5500e-003	0.6181	0.0172	0.6353	0.1652	0.0158	0.1810	0.0000	714.6507	714.6507	0.0358	0.0000	715.4022
Waste						0.0000	0.0000		0.0000	0.0000	10.3830	0.0000	10.3830	0.6136	0.0000	23.2689
Water						0.0000	0.0000		0.0000	0.0000	2.2237	10.7746	12.9983	0.2291	5.5400e-003	19.5263
Total	1.8156	1.2521	6.3152	8.8400e-003	0.6181	0.0246	0.6427	0.1652	0.0232	0.1884	12.6067	960.4407	973.0475	0.8930	8.9100e-003	994.5628

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	1.2457	9.3900e-003	0.7928	4.0000e-005		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1.2647	1.2647	1.3500e-003	0.0000	1.2931
Energy	4.6000e-003	0.0393	0.0169	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	233.7508	233.7508	0.0131	3.3700e-003	235.0722
Mobile	0.5652	1.2033	5.5055	8.5500e-003	0.6181	0.0172	0.6353	0.1652	0.0158	0.1810	0.0000	714.6507	714.6507	0.0358	0.0000	715.4022
Waste						0.0000	0.0000		0.0000	0.0000	10.3830	0.0000	10.3830	0.6136	0.0000	23.2689
Water						0.0000	0.0000		0.0000	0.0000	2.2237	10.7746	12.9983	0.2291	5.5300e-003	19.5228
Total	1.8156	1.2521	6.3152	8.8400e-003	0.6181	0.0246	0.6427	0.1652	0.0232	0.1884	12.6067	960.4407	973.0475	0.8930	8.9000e-003	994.5592

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

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	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 377,106; Residential Outdoor: 125,702; Non-Residential Indoor: 122,438; Non-Residential Outdoor: 40,813 (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	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	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	5	13.00	0.00	76.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	20,238.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	109.00	24.00	28.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.2100e-003	0.0000	8.2100e-003	1.2400e-003	0.0000	1.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
Total	0.0291	0.2826	0.2150	2.4000e-004	8.2100e-003	0.0175	0.0257	1.2400e-003	0.0163	0.0176	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827

3.2 Demolition - 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	8.3000e-004	0.0113	8.8900e-003	3.0000e-005	6.4000e-004	1.5000e-004	7.9000e-004	1.8000e-004	1.4000e-004	3.1000e-004	0.0000	2.6039	2.6039	2.0000e-005	0.0000	2.6043
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	4.8000e-004	6.8000e-004	6.6100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0429	1.0429	6.0000e-005	0.0000	1.0441
Total	1.3100e-003	0.0120	0.0155	4.0000e-005	1.8200e-003	1.6000e-004	1.9800e-003	4.9000e-004	1.5000e-004	6.3000e-004	0.0000	3.6468	3.6468	8.0000e-005	0.0000	3.6484

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					3.6900e-003	0.0000	3.6900e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
Total	0.0291	0.2826	0.2150	2.4000e-004	3.6900e-003	0.0175	0.0211	2.8000e-004	0.0163	0.0166	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826

3.2 Demolition - 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	8.3000e-004	0.0113	8.8900e-003	3.0000e-005	6.4000e-004	1.5000e-004	7.9000e-004	1.8000e-004	1.4000e-004	3.1000e-004	0.0000	2.6039	2.6039	2.0000e-005	0.0000	2.6043
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	4.8000e-004	6.8000e-004	6.6100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0429	1.0429	6.0000e-005	0.0000	1.0441
Total	1.3100e-003	0.0120	0.0155	4.0000e-005	1.8200e-003	1.6000e-004	1.9800e-003	4.9000e-004	1.5000e-004	6.3000e-004	0.0000	3.6468	3.6468	8.0000e-005	0.0000	3.6484

3.3 Site Preparation - 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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0258	0.0165	2.0000e-005		1.4000e-003	1.4000e-003		1.2900e-003	1.2900e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260
Total	2.4400e-003	0.0258	0.0165	2.0000e-005	5.8000e-003	1.4000e-003	7.2000e-003	2.9500e-003	1.2900e-003	4.2400e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260

3.3 Site Preparation - 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	3.0000e-005	4.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0642	0.0642	0.0000	0.0000	0.0643
Total	3.0000e-005	4.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0642	0.0642	0.0000	0.0000	0.0643

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					2.6100e-003	0.0000	2.6100e-003	6.6000e-004	0.0000	6.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0258	0.0165	2.0000e-005		1.4000e-003	1.4000e-003		1.2900e-003	1.2900e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260
Total	2.4400e-003	0.0258	0.0165	2.0000e-005	2.6100e-003	1.4000e-003	4.0100e-003	6.6000e-004	1.2900e-003	1.9500e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260

3.3 Site Preparation - 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	3.0000e-005	4.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0642	0.0642	0.0000	0.0000	0.0643
Total	3.0000e-005	4.0000e-005	4.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0642	0.0642	0.0000	0.0000	0.0643

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
Total	3.9800e-003	0.0421	0.0273	3.0000e-005	9.8300e-003	2.2800e-003	0.0121	5.0500e-003	2.1000e-003	7.1500e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710

3.4 Grading - 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	0.2207	3.0183	2.3680	7.5900e-003	0.1710	0.0393	0.2103	0.0470	0.0362	0.0831	0.0000	693.3885	693.3885	5.1500e-003	0.0000	0.0000	693.4965
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	0.0000
Worker	6.0000e-005	8.0000e-005	8.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1284	0.1284	1.0000e-005	0.0000	0.0000	0.1285
Total	0.2208	3.0184	2.3688	7.5900e-003	0.1711	0.0393	0.2105	0.0470	0.0362	0.0832	0.0000	693.5168	693.5168	5.1600e-003	0.0000	0.0000	693.6250

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					4.4200e-003	0.0000	4.4200e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	0.0000	2.6710
Total	3.9800e-003	0.0421	0.0273	3.0000e-005	4.4200e-003	2.2800e-003	6.7000e-003	1.1400e-003	2.1000e-003	3.2400e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	0.0000	2.6710

3.4 Grading - 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	0.2207	3.0183	2.3680	7.5900e-003	0.1710	0.0393	0.2103	0.0470	0.0362	0.0831	0.0000	693.3885	693.3885	5.1500e-003	0.0000	693.4965
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	6.0000e-005	8.0000e-005	8.1000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1284	0.1284	1.0000e-005	0.0000	0.1285
Total	0.2208	3.0184	2.3688	7.5900e-003	0.1711	0.0393	0.2105	0.0470	0.0362	0.0832	0.0000	693.5168	693.5168	5.1600e-003	0.0000	693.6250

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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527
Total	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527

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	3.1000e-004	4.1800e-003	3.2800e-003	1.0000e-005	2.4000e-004	5.0000e-005	2.9000e-004	6.0000e-005	5.0000e-005	1.2000e-004	0.0000	0.9593	0.9593	1.0000e-005	0.0000	0.9595
Vendor	0.0285	0.2397	0.3245	5.7000e-004	0.0155	3.5900e-003	0.0191	4.4400e-003	3.3000e-003	7.7500e-003	0.0000	51.9014	51.9014	4.2000e-004	0.0000	51.9101
Worker	0.0406	0.0570	0.5542	1.1500e-003	0.0992	7.9000e-004	0.1000	0.0264	7.3000e-004	0.0271	0.0000	87.4436	87.4436	4.6700e-003	0.0000	87.5417
Total	0.0694	0.3009	0.8819	1.7300e-003	0.1150	4.4300e-003	0.1194	0.0309	4.0800e-003	0.0350	0.0000	140.3043	140.3043	5.1000e-003	0.0000	140.4113

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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525
Total	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525

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	3.1000e-004	4.1800e-003	3.2800e-003	1.0000e-005	2.4000e-004	5.0000e-005	2.9000e-004	6.0000e-005	5.0000e-005	1.2000e-004	0.0000	0.9593	0.9593	1.0000e-005	0.0000	0.9595
Vendor	0.0285	0.2397	0.3245	5.7000e-004	0.0155	3.5900e-003	0.0191	4.4400e-003	3.3000e-003	7.7500e-003	0.0000	51.9014	51.9014	4.2000e-004	0.0000	51.9101
Worker	0.0406	0.0570	0.5542	1.1500e-003	0.0992	7.9000e-004	0.1000	0.0264	7.3000e-004	0.0271	0.0000	87.4436	87.4436	4.6700e-003	0.0000	87.5417
Total	0.0694	0.3009	0.8819	1.7300e-003	0.1150	4.4300e-003	0.1194	0.0309	4.0800e-003	0.0350	0.0000	140.3043	140.3043	5.1000e-003	0.0000	140.4113

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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457

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	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5215	0.5215	3.0000e-005	0.0000	0.5220
Total	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5215	0.5215	3.0000e-005	0.0000	0.5220

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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457

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	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5215	0.5215	3.0000e-005	0.0000	0.5220
Total	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5215	0.5215	3.0000e-005	0.0000	0.5220

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	1.7365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	1.7384	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798

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	4.1000e-004	5.8000e-004	5.5900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8825	0.8825	5.0000e-005	0.0000	0.8835
Total	4.1000e-004	5.8000e-004	5.5900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8825	0.8825	5.0000e-005	0.0000	0.8835

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	1.7365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	1.7384	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798

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	4.1000e-004	5.8000e-004	5.5900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8825	0.8825	5.0000e-005	0.0000	0.8835
Total	4.1000e-004	5.8000e-004	5.5900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8825	0.8825	5.0000e-005	0.0000	0.8835

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5652	1.2033	5.5055	8.5500e-003	0.6181	0.0172	0.6353	0.1652	0.0158	0.1810	0.0000	714.6507	714.6507	0.0358	0.0000	715.4022
Unmitigated	0.5652	1.2033	5.5055	8.5500e-003	0.6181	0.0172	0.6353	0.1652	0.0158	0.1810	0.0000	714.6507	714.6507	0.0358	0.0000	715.4022

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	667.68	744.64	631.28	1,503,441	1,503,441
Enclosed Parking with Elevator	0.00	0.00	0.00		
Strip Mall	108.36	132.43	64.35	162,491	162,491
Total	776.04	877.07	695.63	1,665,932	1,665,932

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	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.552333	0.058138	0.185246	0.125281	0.029961	0.004506	0.012317	0.020953	0.001764	0.001280	0.005920	0.000536	0.001765

5.0 Energy Detail

5.1 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	188.2253	188.2253	0.0123	2.5400e-003	189.2696
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	188.2253	188.2253	0.0123	2.5400e-003	189.2696
NaturalGas Mitigated	4.6000e-003	0.0393	0.0169	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	45.5255	45.5255	8.7000e-004	8.3000e-004	45.8026
NaturalGas Unmitigated	4.6000e-003	0.0393	0.0169	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	45.5255	45.5255	8.7000e-004	8.3000e-004	45.8026

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					
Strip Mall	7843.5	4.0000e-005	3.8000e-004	3.2000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4186	0.4186	1.0000e-005	1.0000e-005	0.4211
Apartments Mid Rise	845272	4.5600e-003	0.0390	0.0166	2.5000e-004		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	45.1070	45.1070	8.6000e-004	8.3000e-004	45.3815
Enclosed Parking with Elevator	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
Total		4.6000e-003	0.0393	0.0169	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	45.5255	45.5255	8.7000e-004	8.4000e-004	45.8026

5.2 Energy by Land Use - NaturalGas

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					
Strip Mall	7843.5	4.0000e-005	3.8000e-004	3.2000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4186	0.4186	1.0000e-005	1.0000e-005	0.4211
Apartments Mid Rise	845272	4.5600e-003	0.0390	0.0166	2.5000e-004		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	45.1070	45.1070	8.6000e-004	8.3000e-004	45.3815
Enclosed Parking with Elevator	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
Total		4.6000e-003	0.0393	0.0169	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	45.5255	45.5255	8.7000e-004	8.4000e-004	45.8026

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	366762	74.0305	4.8200e-003	1.0000e-003	74.4412
Enclosed Parking with Elevator	528922	106.7621	6.9600e-003	1.4400e-003	107.3544
Strip Mall	36823.5	7.4328	4.8000e-004	1.0000e-004	7.4740
Total		188.2253	0.0123	2.5400e-003	189.2696

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	366762	74.0305	4.8200e-003	1.0000e-003	74.4412
Enclosed Parking with Elevator	528922	106.7621	6.9600e-003	1.4400e-003	107.3544
Strip Mall	36823.5	7.4328	4.8000e-004	1.0000e-004	7.4740
Total		188.2253	0.0123	2.5400e-003	189.2696

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2457	9.3900e-003	0.7928	4.0000e-005		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1.2647	1.2647	1.3500e-003	0.0000	1.2931
Unmitigated	1.2457	9.3900e-003	0.7928	4.0000e-005		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1.2647	1.2647	1.3500e-003	0.0000	1.2931

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	0.1737					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0461					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	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
Landscaping	0.0260	9.3900e-003	0.7928	4.0000e-005		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1.2647	1.2647	1.3500e-003	0.0000	1.2931	
Total	1.2457	9.3900e-003	0.7928	4.0000e-005		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1.2647	1.2647	1.3500e-003	0.0000	1.2931	

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	0.1737					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0461					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	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
Landscaping	0.0260	9.3900e-003	0.7928	4.0000e-005		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1.2647	1.2647	1.3500e-003	0.0000	1.2931
Total	1.2457	9.3900e-003	0.7928	4.0000e-005		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	1.2647	1.2647	1.3500e-003	0.0000	1.2931

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.9983	0.2291	5.5300e-003	19.5228
Unmitigated	12.9983	0.2291	5.5400e-003	19.5263

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.77602 / 4.27184	12.5684	0.2215	5.3500e-003	18.8792
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.233328 / 0.143008	0.4299	7.6300e-003	1.8000e-004	0.6472
Total		12.9983	0.2291	5.5300e-003	19.5263

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.77602 / 4.27184	12.5684	0.2214	5.3500e-003	18.8757
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.233328 / 0.143008	0.4299	7.6200e-003	1.8000e-004	0.6471
Total		12.9983	0.2291	5.5300e-003	19.5228

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.3830	0.6136	0.0000	23.2689
Unmitigated	10.3830	0.6136	0.0000	23.2689

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	47.84	9.7111	0.5739	0.0000	21.7632
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.31	0.6719	0.0397	0.0000	1.5058
Total		10.3830	0.6136	0.0000	23.2689

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	47.84	9.7111	0.5739	0.0000	21.7632
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.31	0.6719	0.0397	0.0000	1.5058
Total		10.3830	0.6136	0.0000	23.2689

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation
