

APPENDIX 4.3

Air Quality and Greenhouse Gas Emissions Model Output

Santa Paula West
Ventura County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	187.37	1000sqft	4.30	187,373.00	0
General Light Industry	219.69	1000sqft	5.04	219,695.00	0
General Light Industry	276.11	1000sqft	6.34	276,105.00	0
Parking Lot	13.30	Acre	13.30	0.00	0
City Park	3.65	Acre	3.65	0.00	0
Regional Shopping Center	2.84	1000sqft	0.00	2,836.00	0
Regional Shopping Center	5.35	1000sqft	0.00	5,347.00	0
Regional Shopping Center	10.22	1000sqft	0.00	10,222.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Traffic Study

Lot acreage for retail is 0 since it would be located within the general light industry building

Square feet is 0 for parking lot and city park since no architectural coating would be anticipated for those uses

Construction Phase - Construction Assumptions: Set to begin fall 2016

Trips and VMT -

Demolition - Office/Industrial/warehouse = 14,850 sq. ft.

Residential = 2,000 sq. ft.

1,178 tons of demo debris removed.

Grading - Approximately 99,000 cubic yards of during grading

Approximately 7,000 cubic yards of debris and material storage removal

Vehicle Trips - City park is associated with open space; no generated trips based on traffic study

Land Use Change - None

Construction Off-road Equipment Mitigation - Dust Control Mitigation

Mobile Land Use Mitigation -

Area Mitigation - ROG mitigation measures

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	75	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	70.00
tblConstructionPhase	PhaseEndDate	5/8/2019	3/20/2019
tblConstructionPhase	PhaseStartDate	1/31/2019	12/13/2018
tblGrading	MaterialExported	0.00	7,000.00
tblGrading	MaterialImported	0.00	99,000.00
tblLandUse	LandUseSquareFeet	187,370.00	187,373.00
tblLandUse	LandUseSquareFeet	219,690.00	219,695.00
tblLandUse	LandUseSquareFeet	276,110.00	276,105.00

tblLandUse	LandUseSquareFeet	579,348.00	0.00
tblLandUse	LandUseSquareFeet	158,994.00	0.00
tblLandUse	LandUseSquareFeet	10,220.00	10,222.00
tblLandUse	LandUseSquareFeet	2,840.00	2,836.00
tblLandUse	LandUseSquareFeet	5,350.00	5,347.00
tblLandUse	LotAcreage	0.23	0.00
tblLandUse	LotAcreage	0.07	0.00
tblLandUse	LotAcreage	0.12	0.00
tblProjectCharacteristics	OperationalYear	2014	2030
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	49.97	42.70
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	42.94	42.70

2.0 Emissions Summary

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.3342	4.3299	3.1300	6.2300e-003	0.5118	0.1549	0.6666	0.2145	0.1429	0.3574	0.0000	573.6826	573.6826	0.0613	0.0000	574.9698
2017	0.6701	5.3504	5.7817	0.0111	0.6789	0.2641	0.9430	0.2093	0.2473	0.4566	0.0000	937.4826	937.4826	0.0960	0.0000	939.4984
2018	2.0767	4.3006	5.1246	0.0101	0.3892	0.2129	0.6021	0.1052	0.1997	0.3049	0.0000	830.1042	830.1042	0.0894	0.0000	831.9812
2019	6.6590	0.2225	0.2691	5.0000e-004	0.0149	0.0127	0.0276	3.9500e-003	0.0120	0.0159	0.0000	41.0873	41.0873	8.1300e-003	0.0000	41.2581
Total	9.7400	14.2034	14.3054	0.0280	1.5948	0.6446	2.2393	0.5329	0.6019	1.1348	0.0000	2,382.3568	2,382.3568	0.2548	0.0000	2,387.7075

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	3.5536	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0135
Energy	0.0799	0.7266	0.6103	4.3600e-003		0.0552	0.0552		0.0552	0.0552	0.0000	2,664.7868	2,664.7868	0.1013	0.0323	2,676.9337
Mobile	1.4931	2.9528	14.4685	0.0621	4.4504	0.0662	4.5166	1.1883	0.0612	1.2495	0.0000	4,006.2633	4,006.2633	0.1131	0.0000	4,008.6392
Waste						0.0000	0.0000		0.0000	0.0000	175.9465	0.0000	175.9465	10.3981	0.0000	394.3074
Water						0.0000	0.0000		0.0000	0.0000	50.5534	610.2383	660.7917	5.2204	0.1284	810.2250
Total	5.1266	3.6794	15.0853	0.0664	4.4504	0.1215	4.5719	1.1883	0.1164	1.3047	226.4999	7,281.3012	7,507.8011	15.8330	0.1607	7,890.1188

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	3.3487	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0135
Energy	0.0717	0.6522	0.5478	3.9100e-003		0.0496	0.0496		0.0496	0.0496	0.0000	2,171.4152	2,171.4152	0.0808	0.0269	2,181.4553
Mobile	1.4514	2.6979	13.4017	0.0555	3.9653	0.0599	4.0252	1.0588	0.0553	1.1141	0.0000	3,582.8470	3,582.8470	0.1019	0.0000	3,584.9861
Waste						0.0000	0.0000		0.0000	0.0000	87.9732	0.0000	87.9732	5.1991	0.0000	197.1537
Water						0.0000	0.0000		0.0000	0.0000	40.4427	471.7041	512.1468	4.1755	0.1026	631.6289
Total	4.8719	3.3501	13.9561	0.0594	3.9653	0.1095	4.0748	1.0588	0.1049	1.1637	128.4159	6,225.9790	6,354.3949	9.5573	0.1295	6,595.2376

	ROG	NOx	CO	SO2	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	4.97	8.95	7.49	10.55	10.90	9.87	10.87	10.90	9.89	10.81	43.30	14.49	15.36	39.64	19.44	16.41

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	0.0000
Total	0.0000

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	9/1/2016	10/12/2016	5	30	
2	Site Preparation	Site Preparation	10/13/2016	11/9/2016	5	20	
3	Grading	Grading	11/10/2016	1/11/2017	5	45	
4	Building Construction	Building Construction	1/12/2017	12/12/2018	5	500	
5	Paving	Paving	12/13/2018	1/30/2019	5	35	
6	Architectural Coating	Architectural Coating	12/13/2018	3/20/2019	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,052,367; Non-Residential Outdoor: 350,789 (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	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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	116.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	875.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	12,375.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	115.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved 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					0.0128	0.0000	0.0128	1.9300e-003	0.0000	1.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0643	0.6848	0.5255	6.0000e-004		0.0344	0.0344		0.0321	0.0321	0.0000	55.6460	55.6460	0.0151	0.0000	55.9638
Total	0.0643	0.6848	0.5255	6.0000e-004	0.0128	0.0344	0.0471	1.9300e-003	0.0321	0.0340	0.0000	55.6460	55.6460	0.0151	0.0000	55.9638

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	1.0000e-003	0.0178	0.0130	4.0000e-005	9.9000e-004	2.6000e-004	1.2500e-003	2.7000e-004	2.4000e-004	5.1000e-004	0.0000	3.8228	3.8228	2.0000e-005	0.0000	3.8233
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	7.9000e-004	9.5000e-004	9.5400e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004	0.0000	1.6024	1.6024	8.0000e-005	0.0000	1.6041
Total	1.7900e-003	0.0187	0.0225	6.0000e-005	2.8000e-003	2.7000e-004	3.0800e-003	7.5000e-004	2.5000e-004	1.0100e-003	0.0000	5.4252	5.4252	1.0000e-004	0.0000	5.4274

3.2 Demolition - 2016

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					4.7300e-003	0.0000	4.7300e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0142	0.2814	0.3790	6.0000e-004		0.0132	0.0132		0.0132	0.0132	0.0000	55.6460	55.6460	0.0151	0.0000	55.9638
Total	0.0142	0.2814	0.3790	6.0000e-004	4.7300e-003	0.0132	0.0180	7.2000e-004	0.0132	0.0139	0.0000	55.6460	55.6460	0.0151	0.0000	55.9638

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	1.0000e-003	0.0178	0.0130	4.0000e-005	9.9000e-004	2.6000e-004	1.2500e-003	2.7000e-004	2.4000e-004	5.1000e-004	0.0000	3.8228	3.8228	2.0000e-005	0.0000	3.8233
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	7.9000e-004	9.5000e-004	9.5400e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004	0.0000	1.6024	1.6024	8.0000e-005	0.0000	1.6041
Total	1.7900e-003	0.0187	0.0225	6.0000e-005	2.8000e-003	2.7000e-004	3.0800e-003	7.5000e-004	2.5000e-004	1.0100e-003	0.0000	5.4252	5.4252	1.0000e-004	0.0000	5.4274

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					0.1812	0.0000	0.1812	0.0994	0.0000	0.0994	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0508	0.5463	0.4111	3.9000e-004		0.0294	0.0294		0.0270	0.0270	0.0000	36.8771	36.8771	0.0111	0.0000	37.1107
Total	0.0508	0.5463	0.4111	3.9000e-004	0.1812	0.0294	0.2105	0.0994	0.0270	0.1264	0.0000	36.8771	36.8771	0.0111	0.0000	37.1107

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	7.5600e-003	0.1341	0.0981	3.2000e-004	7.4600e-003	1.9400e-003	9.4000e-003	2.0400e-003	1.7800e-003	3.8300e-003	0.0000	28.8358	28.8358	1.8000e-004	0.0000	28.8396
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	6.4000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2819	1.2819	7.0000e-005	0.0000	1.2833
Total	8.2000e-003	0.1349	0.1057	3.4000e-004	8.9100e-003	1.9500e-003	0.0109	2.4300e-003	1.7900e-003	4.2300e-003	0.0000	30.1177	30.1177	2.5000e-004	0.0000	30.1229

3.3 Site Preparation - 2016

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					0.0671	0.0000	0.0671	0.0368	0.0000	0.0368	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5100e-003	0.1946	0.2340	3.9000e-004		9.6100e-003	9.6100e-003		9.6100e-003	9.6100e-003	0.0000	36.8771	36.8771	0.0111	0.0000	37.1107
Total	9.5100e-003	0.1946	0.2340	3.9000e-004	0.0671	9.6100e-003	0.0767	0.0368	9.6100e-003	0.0464	0.0000	36.8771	36.8771	0.0111	0.0000	37.1107

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	7.5600e-003	0.1341	0.0981	3.2000e-004	7.4600e-003	1.9400e-003	9.4000e-003	2.0400e-003	1.7800e-003	3.8300e-003	0.0000	28.8358	28.8358	1.8000e-004	0.0000	28.8396
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	6.4000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2819	1.2819	7.0000e-005	0.0000	1.2833
Total	8.2000e-003	0.1349	0.1057	3.4000e-004	8.9100e-003	1.9500e-003	0.0109	2.4300e-003	1.7900e-003	4.2300e-003	0.0000	30.1177	30.1177	2.5000e-004	0.0000	30.1229

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					0.2021	0.0000	0.2021	0.0820	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1199	1.3841	0.9090	1.1400e-003		0.0663	0.0663		0.0610	0.0610	0.0000	107.6621	107.6621	0.0325	0.0000	108.3441
Total	0.1199	1.3841	0.9090	1.1400e-003	0.2021	0.0663	0.2684	0.0820	0.0610	0.1430	0.0000	107.6621	107.6621	0.0325	0.0000	108.3441

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	0.0880	1.5595	1.1405	3.6700e-003	0.1010	0.0225	0.1236	0.0273	0.0207	0.0480	0.0000	335.3193	335.3193	2.0800e-003	0.0000	335.3630
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	1.3100e-003	1.5700e-003	0.0157	3.0000e-005	2.9800e-003	2.0000e-005	3.0100e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6351	2.6351	1.4000e-004	0.0000	2.6379
Total	0.0893	1.5611	1.1562	3.7000e-003	0.1040	0.0226	0.1266	0.0281	0.0208	0.0488	0.0000	337.9544	337.9544	2.2200e-003	0.0000	338.0009

3.4 Grading - 2016

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					0.0749	0.0000	0.0749	0.0304	0.0000	0.0304	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.5509	0.7020	1.1400e-003		0.0245	0.0245		0.0245	0.0245	0.0000	107.6620	107.6620	0.0325	0.0000	108.3439
Total	0.0280	0.5509	0.7020	1.1400e-003	0.0749	0.0245	0.0994	0.0304	0.0245	0.0549	0.0000	107.6620	107.6620	0.0325	0.0000	108.3439

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	0.0880	1.5595	1.1405	3.6700e-003	0.1010	0.0225	0.1236	0.0273	0.0207	0.0480	0.0000	335.3193	335.3193	2.0800e-003	0.0000	335.3630
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	1.3100e-003	1.5700e-003	0.0157	3.0000e-005	2.9800e-003	2.0000e-005	3.0100e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6351	2.6351	1.4000e-004	0.0000	2.6379
Total	0.0893	1.5611	1.1562	3.7000e-003	0.1040	0.0226	0.1266	0.0281	0.0208	0.0488	0.0000	337.9544	337.9544	2.2200e-003	0.0000	338.0009

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2021	0.0000	0.2021	0.0820	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0244	0.2784	0.1872	2.5000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	22.9096	22.9096	7.0200e-003	0.0000	23.0570
Total	0.0244	0.2784	0.1872	2.5000e-004	0.2021	0.0133	0.2154	0.0820	0.0122	0.0942	0.0000	22.9096	22.9096	7.0200e-003	0.0000	23.0570

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	0.0170	0.3015	0.2335	7.9000e-004	0.0846	4.1900e-003	0.0888	0.0213	3.8500e-003	0.0252	0.0000	71.2903	71.2903	4.2000e-004	0.0000	71.2991
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	2.5000e-004	3.1000e-004	3.0400e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5476	0.5476	3.0000e-005	0.0000	0.5482
Total	0.0172	0.3018	0.2365	8.0000e-004	0.0853	4.1900e-003	0.0894	0.0215	3.8500e-003	0.0253	0.0000	71.8379	71.8379	4.5000e-004	0.0000	71.8473

3.4 Grading - 2017

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					0.0749	0.0000	0.0749	0.0304	0.0000	0.0304	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0500e-003	0.1191	0.1518	2.5000e-004		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	22.9095	22.9095	7.0200e-003	0.0000	23.0570
Total	6.0500e-003	0.1191	0.1518	2.5000e-004	0.0749	5.2900e-003	0.0802	0.0304	5.2900e-003	0.0357	0.0000	22.9095	22.9095	7.0200e-003	0.0000	23.0570

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	0.0170	0.3015	0.2335	7.9000e-004	0.0846	4.1900e-003	0.0888	0.0213	3.8500e-003	0.0252	0.0000	71.2903	71.2903	4.2000e-004	0.0000	71.2991
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	2.5000e-004	3.1000e-004	3.0400e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5476	0.5476	3.0000e-005	0.0000	0.5482
Total	0.0172	0.3018	0.2365	8.0000e-004	0.0853	4.1900e-003	0.0894	0.0215	3.8500e-003	0.0253	0.0000	71.8379	71.8379	4.5000e-004	0.0000	71.8473

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3909	3.3271	2.2843	3.3800e-003		0.2244	0.2244		0.2108	0.2108	0.0000	301.7437	301.7437	0.0743	0.0000	303.3032
Total	0.3909	3.3271	2.2843	3.3800e-003		0.2244	0.2244		0.2108	0.2108	0.0000	301.7437	301.7437	0.0743	0.0000	303.3032

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	0.1201	1.3023	1.6687	3.2200e-003	0.0939	0.0200	0.1138	0.0267	0.0184	0.0451	0.0000	288.2774	288.2774	1.8400e-003	0.0000	288.3160
Worker	0.1174	0.1409	1.4049	3.4600e-003	0.2977	2.2600e-003	0.2999	0.0791	2.0900e-003	0.0812	0.0000	252.7141	252.7141	0.0124	0.0000	252.9749
Total	0.2375	1.4432	3.0737	6.6800e-003	0.3915	0.0222	0.4138	0.1058	0.0205	0.1263	0.0000	540.9914	540.9914	0.0143	0.0000	541.2909

3.5 Building Construction - 2017

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	0.0846	1.7859	2.2448	3.3800e-003		0.1136	0.1136		0.1136	0.1136	0.0000	301.7433	301.7433	0.0743	0.0000	303.3029
Total	0.0846	1.7859	2.2448	3.3800e-003		0.1136	0.1136		0.1136	0.1136	0.0000	301.7433	301.7433	0.0743	0.0000	303.3029

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	0.1201	1.3023	1.6687	3.2200e-003	0.0939	0.0200	0.1138	0.0267	0.0184	0.0451	0.0000	288.2774	288.2774	1.8400e-003	0.0000	288.3160
Worker	0.1174	0.1409	1.4049	3.4600e-003	0.2977	2.2600e-003	0.2999	0.0791	2.0900e-003	0.0812	0.0000	252.7141	252.7141	0.0124	0.0000	252.9749
Total	0.2375	1.4432	3.0737	6.6800e-003	0.3915	0.0222	0.4138	0.1058	0.0205	0.1263	0.0000	540.9914	540.9914	0.0143	0.0000	541.2909

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3309	2.8843	2.1741	3.3200e-003		0.1853	0.1853		0.1742	0.1742	0.0000	293.5944	293.5944	0.0719	0.0000	295.1032
Total	0.3309	2.8843	2.1741	3.3200e-003		0.1853	0.1853		0.1742	0.1742	0.0000	293.5944	293.5944	0.0719	0.0000	295.1032

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	0.1106	1.1643	1.5757	3.1700e-003	0.0924	0.0183	0.1107	0.0263	0.0169	0.0432	0.0000	279.0586	279.0586	1.7800e-003	0.0000	279.0960
Worker	0.1052	0.1257	1.2520	3.4100e-003	0.2930	2.1800e-003	0.2951	0.0778	2.0200e-003	0.0798	0.0000	239.3828	239.3828	0.0113	0.0000	239.6204
Total	0.2158	1.2900	2.8277	6.5800e-003	0.3853	0.0205	0.4059	0.1041	0.0189	0.1230	0.0000	518.4414	518.4414	0.0131	0.0000	518.7164

3.5 Building Construction - 2018

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	0.0832	1.7576	2.2091	3.3200e-003		0.1118	0.1118		0.1118	0.1118	0.0000	293.5941	293.5941	0.0719	0.0000	295.1029
Total	0.0832	1.7576	2.2091	3.3200e-003		0.1118	0.1118		0.1118	0.1118	0.0000	293.5941	293.5941	0.0719	0.0000	295.1029

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	0.1106	1.1643	1.5757	3.1700e-003	0.0924	0.0183	0.1107	0.0263	0.0169	0.0432	0.0000	279.0586	279.0586	1.7800e-003	0.0000	279.0960
Worker	0.1052	0.1257	1.2520	3.4100e-003	0.2930	2.1800e-003	0.2951	0.0778	2.0200e-003	0.0798	0.0000	239.3828	239.3828	0.0113	0.0000	239.6204
Total	0.2158	1.2900	2.8277	6.5800e-003	0.3853	0.0205	0.4059	0.1041	0.0189	0.1230	0.0000	518.4414	518.4414	0.0131	0.0000	518.7164

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0105	0.1116	0.0942	1.5000e-004		6.1000e-003	6.1000e-003		5.6100e-003	5.6100e-003	0.0000	13.2397	13.2397	4.1200e-003	0.0000	13.3262
Paving	6.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0169	0.1116	0.0942	1.5000e-004		6.1000e-003	6.1000e-003		5.6100e-003	5.6100e-003	0.0000	13.2397	13.2397	4.1200e-003	0.0000	13.3262

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	2.8000e-004	3.4000e-004	3.3600e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6424	0.6424	3.0000e-005	0.0000	0.6430
Total	2.8000e-004	3.4000e-004	3.3600e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6424	0.6424	3.0000e-005	0.0000	0.6430

3.6 Paving - 2018

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	3.5700e-003	0.0719	0.1100	1.5000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	13.2397	13.2397	4.1200e-003	0.0000	13.3262
Paving	6.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0100	0.0719	0.1100	1.5000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	13.2397	13.2397	4.1200e-003	0.0000	13.3262

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	2.8000e-004	3.4000e-004	3.3600e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6424	0.6424	3.0000e-005	0.0000	0.6430
Total	2.8000e-004	3.4000e-004	3.3600e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6424	0.6424	3.0000e-005	0.0000	0.6430

3.6 Paving - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0157	0.1643	0.1580	2.5000e-004		8.9000e-003	8.9000e-003		8.1900e-003	8.1900e-003	0.0000	22.0434	22.0434	6.9700e-003	0.0000	22.1899
Paving	0.0110					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0266	0.1643	0.1580	2.5000e-004		8.9000e-003	8.9000e-003		8.1900e-003	8.1900e-003	0.0000	22.0434	22.0434	6.9700e-003	0.0000	22.1899

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	4.4000e-004	5.2000e-004	5.2400e-003	2.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0515	1.0515	5.0000e-005	0.0000	1.0525
Total	4.4000e-004	5.2000e-004	5.2400e-003	2.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0515	1.0515	5.0000e-005	0.0000	1.0525

3.6 Paving - 2019

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	6.0400e-003	0.1217	0.1862	2.5000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003	0.0000	22.0434	22.0434	6.9700e-003	0.0000	22.1899
Paving	0.0110					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0170	0.1217	0.1862	2.5000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003	0.0000	22.0434	22.0434	6.9700e-003	0.0000	22.1899

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	4.4000e-004	5.2000e-004	5.2400e-003	2.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0515	1.0515	5.0000e-005	0.0000	1.0525
Total	4.4000e-004	5.2000e-004	5.2400e-003	2.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0515	1.0515	5.0000e-005	0.0000	1.0525

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5098					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9400e-003	0.0130	0.0121	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.6596	1.6596	1.6000e-004	0.0000	1.6629
Total	1.5117	0.0130	0.0121	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.6596	1.6596	1.6000e-004	0.0000	1.6629

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	1.1100e-003	1.3300e-003	0.0132	4.0000e-005	3.0900e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.5268	2.5268	1.2000e-004	0.0000	2.5293
Total	1.1100e-003	1.3300e-003	0.0132	4.0000e-005	3.0900e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.5268	2.5268	1.2000e-004	0.0000	2.5293

3.7 Architectural Coating - 2018

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	1.5098					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-004	8.8200e-003	0.0119	2.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	1.6596	1.6596	1.6000e-004	0.0000	1.6629
Total	1.5102	8.8200e-003	0.0119	2.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	1.6596	1.6596	1.6000e-004	0.0000	1.6629

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	1.1100e-003	1.3300e-003	0.0132	4.0000e-005	3.0900e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.5268	2.5268	1.2000e-004	0.0000	2.5293
Total	1.1100e-003	1.3300e-003	0.0132	4.0000e-005	3.0900e-003	2.0000e-005	3.1200e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.5268	2.5268	1.2000e-004	0.0000	2.5293

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.6198					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5900e-003	0.0523	0.0525	8.0000e-005		3.6700e-003	3.6700e-003		3.6700e-003	3.6700e-003	0.0000	7.2768	7.2768	6.1000e-004	0.0000	7.2897
Total	6.6274	0.0523	0.0525	8.0000e-005		3.6700e-003	3.6700e-003		3.6700e-003	3.6700e-003	0.0000	7.2768	7.2768	6.1000e-004	0.0000	7.2897

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	4.5200e-003	5.3500e-003	0.0534	1.6000e-004	0.0136	1.0000e-004	0.0137	3.6000e-003	9.0000e-005	3.6900e-003	0.0000	10.7156	10.7156	4.9000e-004	0.0000	10.7260
Total	4.5200e-003	5.3500e-003	0.0534	1.6000e-004	0.0136	1.0000e-004	0.0137	3.6000e-003	9.0000e-005	3.6900e-003	0.0000	10.7156	10.7156	4.9000e-004	0.0000	10.7260

3.7 Architectural Coating - 2019

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	6.6198					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6900e-003	0.0387	0.0522	8.0000e-005		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	7.2768	7.2768	6.1000e-004	0.0000	7.2897
Total	6.6215	0.0387	0.0522	8.0000e-005		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	7.2768	7.2768	6.1000e-004	0.0000	7.2897

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	4.5200e-003	5.3500e-003	0.0534	1.6000e-004	0.0136	1.0000e-004	0.0137	3.6000e-003	9.0000e-005	3.6900e-003	0.0000	10.7156	10.7156	4.9000e-004	0.0000	10.7260
Total	4.5200e-003	5.3500e-003	0.0534	1.6000e-004	0.0136	1.0000e-004	0.0137	3.6000e-003	9.0000e-005	3.6900e-003	0.0000	10.7156	10.7156	4.9000e-004	0.0000	10.7260

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

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	1.4514	2.6979	13.4017	0.0555	3.9653	0.0599	4.0252	1.0588	0.0553	1.1141	0.0000	3,582.8470	3,582.8470	0.1019	0.0000	3,584.9861
Unmitigated	1.4931	2.9528	14.4685	0.0621	4.4504	0.0662	4.5166	1.1883	0.0612	1.2495	0.0000	4,006.2633	4,006.2633	0.1131	0.0000	4,008.6392

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	1,305.97	247.33	127.41	2,879,716	2,565,827
General Light Industry	1,531.24	289.99	149.39	3,376,447	3,008,414
General Light Industry	1,924.49	364.47	187.75	4,243,573	3,781,024
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	121.27	121.27	71.68	200,200	178,378
Regional Shopping Center	228.45	228.45	135.03	377,137	336,029
Regional Shopping Center	436.39	436.39	257.95	720,437	641,910
Total	5,547.80	1,687.89	929.22	11,797,510	10,511,581

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
City Park	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462361	0.064329	0.187151	0.161808	0.068181	0.010152	0.013866	0.019623	0.000750	0.000701	0.004466	0.000287	0.006323

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	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	1,461.4503	1,461.4503	0.0672	0.0139	1,467.1697
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,873.8501	1,873.8501	0.0861	0.0178	1,881.1835
NaturalGas Mitigated	0.0717	0.6522	0.5478	3.9100e-003		0.0496	0.0496		0.0496	0.0496	0.0000	709.9648	709.9648	0.0136	0.0130	714.2856
NaturalGas Unmitigated	0.0799	0.7266	0.6103	4.3600e-003		0.0552	0.0552		0.0552	0.0552	0.0000	790.9367	790.9367	0.0152	0.0145	795.7502

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					
City Park	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
General Light Industry	4.05475e+006	0.0219	0.1988	0.1670	1.1900e-003		0.0151	0.0151		0.0151	0.0151	0.0000	216.3770	216.3770	4.1500e-003	3.9700e-003	217.6938
General Light Industry	4.7542e+006	0.0256	0.2331	0.1958	1.4000e-003		0.0177	0.0177		0.0177	0.0177	0.0000	253.7022	253.7022	4.8600e-003	4.6500e-003	255.2462
General Light Industry	5.97491e+006	0.0322	0.2929	0.2460	1.7600e-003		0.0223	0.0223		0.0223	0.0223	0.0000	318.8441	318.8441	6.1100e-003	5.8500e-003	320.7845
Parking Lot	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
Regional Shopping Center	10961.3	6.0000e-005	5.4000e-004	4.5000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5849	0.5849	1.0000e-005	1.0000e-005	0.5885
Regional Shopping Center	20955.1	1.1000e-004	1.0300e-003	8.6000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1182	1.1182	2.0000e-005	2.0000e-005	1.1251
Regional Shopping Center	5813.8	3.0000e-005	2.8000e-004	2.4000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3103	0.3103	1.0000e-005	1.0000e-005	0.3121
Total		0.0799	0.7266	0.6103	4.3600e-003		0.0552	0.0552		0.0552	0.0552	0.0000	790.9367	790.9367	0.0152	0.0145	795.7502

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					
City Park	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
General Light Industry	3.63935e+006	0.0196	0.1784	0.1499	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	194.2094	194.2094	3.7200e-003	3.5600e-003	195.3913
General Light Industry	4.26714e+006	0.0230	0.2092	0.1757	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	227.7106	227.7106	4.3600e-003	4.1700e-003	229.0964
General Light Industry	5.36279e+006	0.0289	0.2629	0.2208	1.5800e-003		0.0200	0.0200		0.0200	0.0200	0.0000	286.1788	286.1788	5.4900e-003	5.2500e-003	287.9204
Parking Lot	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
Regional Shopping Center	10159.3	5.0000e-005	5.0000e-004	4.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5421	0.5421	1.0000e-005	1.0000e-005	0.5454
Regional Shopping Center	19421.8	1.0000e-004	9.5000e-004	8.0000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0364	1.0364	2.0000e-005	2.0000e-005	1.0427
Regional Shopping Center	5388.4	3.0000e-005	2.6000e-004	2.2000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2876	0.2876	1.0000e-005	1.0000e-005	0.2893
Total		0.0717	0.6522	0.5478	3.9200e-003		0.0496	0.0496		0.0496	0.0496	0.0000	709.9649	709.9649	0.0136	0.0130	714.2856

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.73133e+006	495.4483	0.0228	4.7100e-003	497.3873
General Light Industry	2.02998e+006	580.9136	0.0267	5.5200e-003	583.1870
General Light Industry	2.55121e+006	730.0719	0.0336	6.9400e-003	732.9290
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	130842	37.4425	1.7200e-003	3.6000e-004	37.5891
Regional Shopping Center	36300.8	10.3881	4.8000e-004	1.0000e-004	10.4287
Regional Shopping Center	68441.6	19.5857	9.0000e-004	1.9000e-004	19.6624
Total		1,873.8501	0.0861	0.0178	1,881.1835

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.35499e+006	387.7527	0.0178	3.6900e-003	389.2701
General Light Industry	1.58872e+006	454.6403	0.0209	4.3200e-003	456.4196
General Light Industry	1.99665e+006	571.3761	0.0263	5.4300e-003	573.6122
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	25674.3	7.3471	3.4000e-004	7.0000e-005	7.3759
Regional Shopping Center	48406.4	13.8523	6.4000e-004	1.3000e-004	13.9065
Regional Shopping Center	92539.8	26.4818	1.2200e-003	2.5000e-004	26.5855
Total		1,461.4503	0.0672	0.0139	1,467.1697

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	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	3.3487	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0135
Unmitigated	3.5536	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0135

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	0.8130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7400					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-004	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0135
Total	3.5536	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0135

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	0.8130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.5352					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-004	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0135
Total	3.3487	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0135

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	512.1468	4.1755	0.1026	631.6289
Unmitigated	660.7917	5.2204	0.1284	810.2250

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.34891	13.8265	6.4000e-004	1.3000e-004	13.8807
General Light Industry	157.983 / 0	638.7939	5.1749	0.1272	786.8845
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.36368 / 0.835801	8.1712	0.0448	1.1200e-003	9.4599
Total		660.7917	5.2204	0.1284	810.2250

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 3.47913	11.0612	5.1000e-004	1.1000e-004	11.1045
General Light Industry	126.386 / 0	494.6897	4.1392	0.1016	613.0982
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.09094 / 0.668641	6.3959	0.0358	9.0000e-004	7.4263
Total		512.1468	4.1755	0.1026	631.6289

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	87.9732	5.1991	0.0000	197.1537
Unmitigated	175.9465	10.3981	0.0000	394.3074

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.31	0.0629	3.7200e-003	0.0000	0.1410
General Light Industry	847.13	171.9597	10.1625	0.0000	385.3729
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	19.33	3.9238	0.2319	0.0000	8.7935
Total		175.9465	10.3981	0.0000	394.3074

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.155	0.0315	1.8600e-003	0.0000	0.0705
General Light Industry	423.565	85.9799	5.0813	0.0000	192.6864
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	9.665	1.9619	0.1160	0.0000	4.3968
Total		87.9732	5.1991	0.0000	197.1537

9.0 Operational Offroad

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

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

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Santa Paula West
Ventura County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	187.37	1000sqft	4.30	187,373.00	0
General Light Industry	219.69	1000sqft	5.04	219,695.00	0
General Light Industry	276.11	1000sqft	6.34	276,105.00	0
Parking Lot	13.30	Acre	13.30	0.00	0
City Park	3.65	Acre	3.65	0.00	0
Regional Shopping Center	2.84	1000sqft	0.00	2,836.00	0
Regional Shopping Center	5.35	1000sqft	0.00	5,347.00	0
Regional Shopping Center	10.22	1000sqft	0.00	10,222.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Traffic Study

Lot acreage for retail is 0 since it would be located within the general light industry building

Square feet is 0 for parking lot and city park since no architectural coating would be anticipated for those uses

Construction Phase - Construction Assumptions: Set to begin fall 2016

Trips and VMT -

Demolition - Office/Industrial/warehouse = 14,850 sq. ft.

Residential = 2,000 sq. ft.

1,178 tons of demo debris removed.

Grading - Approximately 99,000 cubic yards of during grading

Approximately 7,000 cubic yards of debris and material storage removal

Vehicle Trips - City park is associated with open space; no generated trips based on traffic study

Land Use Change - None

Construction Off-road Equipment Mitigation - Dust Control Mitigation

Mobile Land Use Mitigation -

Area Mitigation - ROG mitigation measures

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	75	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	70.00
tblConstructionPhase	PhaseEndDate	5/8/2019	3/20/2019
tblConstructionPhase	PhaseStartDate	1/31/2019	12/13/2018
tblGrading	MaterialExported	0.00	7,000.00
tblGrading	MaterialImported	0.00	99,000.00
tblLandUse	LandUseSquareFeet	187,370.00	187,373.00
tblLandUse	LandUseSquareFeet	219,690.00	219,695.00
tblLandUse	LandUseSquareFeet	276,110.00	276,105.00

tblLandUse	LandUseSquareFeet	579,348.00	0.00
tblLandUse	LandUseSquareFeet	158,994.00	0.00
tblLandUse	LandUseSquareFeet	10,220.00	10,222.00
tblLandUse	LandUseSquareFeet	2,840.00	2,836.00
tblLandUse	LandUseSquareFeet	5,350.00	5,347.00
tblLandUse	LotAcreage	0.23	0.00
tblLandUse	LotAcreage	0.07	0.00
tblLandUse	LotAcreage	0.12	0.00
tblProjectCharacteristics	OperationalYear	2014	2030
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	49.97	42.70
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	42.94	42.70

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	11.0240	155.6971	103.5001	0.2622	19.0221	4.8022	22.1554	10.1848	4.4177	13.0675	0.0000	26,578.77 20	26,578.77 20	2.0662	0.0000	26,622.16 12
2017	10.1764	141.9123	97.7143	0.2619	30.7322	4.3637	35.0958	9.1187	4.0144	13.1331	0.0000	26,136.73 46	26,136.73 46	2.0569	0.0000	26,179.93 04
2018	235.3954	33.2145	38.1653	0.0811	3.1638	1.6591	4.8229	0.8536	1.5565	2.4101	0.0000	7,316.852 5	7,316.852 5	0.7549	0.0000	7,332.705 8
2019	235.1625	16.9782	18.6113	0.0325	0.6079	0.9426	1.5505	0.1612	0.8775	1.0388	0.0000	3,032.152 6	3,032.152 6	0.7466	0.0000	3,047.831 7
Total	491.7582	347.8020	257.9909	0.6377	53.5259	11.7675	63.6246	20.3184	10.8661	29.6495	0.0000	63,064.51 17	63,064.51 17	5.6246	0.0000	63,182.62 90

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	19.4750	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Energy	0.4379	3.9811	3.3441	0.0239		0.3026	0.3026		0.3026	0.3026		4,777.3067	4,777.3067	0.0916	0.0876	4,806.3806
Mobile	10.5796	19.5630	99.2168	0.4570	32.2606	0.4705	32.7311	8.6011	0.4346	9.0358		32,440.1294	32,440.1294	0.8872		32,458.7596
Total	30.4925	23.5447	102.6339	0.4809	32.2606	0.7733	33.0339	8.6011	0.7375	9.3386		37,217.5933	37,217.5933	0.9791	0.0876	37,265.3060

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.3525	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Energy	0.3931	3.5735	3.0018	0.0214		0.2716	0.2716		0.2716	0.2716		4,288.2317	4,288.2317	0.0822	0.0786	4,314.3291
Mobile	10.2789	17.8865	91.1187	0.4086	28.7442	0.4254	29.1695	7.6636	0.3930	8.0566		29,008.5632	29,008.5632	0.7986		29,025.3341
Total	29.0244	21.4607	94.1935	0.4301	28.7442	0.6972	29.4414	7.6636	0.6648	8.3284		33,296.9521	33,296.9521	0.8812	0.0786	33,339.8290

	ROG	NOx	CO	SO2	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	4.81	8.85	8.22	10.56	10.90	9.84	10.88	10.90	9.85	10.82	0.00	10.53	10.53	10.00	10.23	10.53

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	9/1/2016	10/12/2016	5	30	
2	Site Preparation	Site Preparation	10/13/2016	11/9/2016	5	20	
3	Grading	Grading	11/10/2016	1/11/2017	5	45	
4	Building Construction	Building Construction	1/12/2017	12/12/2018	5	500	
5	Paving	Paving	12/13/2018	1/30/2019	5	35	
6	Architectural Coating	Architectural Coating	12/13/2018	3/20/2019	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,052,367; Non-Residential Outdoor: 350,789 (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	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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	116.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	875.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	12,375.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	115.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved 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	lb/day										lb/day						
Fugitive Dust					0.8508	0.0000	0.8508	0.1288	0.0000	0.1288			0.0000				0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121			4,112.637 4
Total	4.2876	45.6559	35.0303	0.0399	0.8508	2.2921	3.1429	0.1288	2.1365	2.2654		4,089.284 1	4,089.284 1	1.1121			4,112.637 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0629	1.1362	0.7523	2.7900e-003	0.0671	0.0171	0.0842	0.0183	0.0157	0.0341		281.2147	281.2147	1.7300e-003			281.2511
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
Worker	0.0534	0.0561	0.6446	1.4700e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		122.7044	122.7044	6.0600e-003			122.8317
Total	0.1163	1.1924	1.3969	4.2600e-003	0.1903	0.0181	0.2083	0.0510	0.0166	0.0676		403.9192	403.9192	7.7900e-003			404.0828

3.2 Demolition - 2016**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3152	0.0000	0.3152	0.0477	0.0000	0.0477			0.0000			0.0000
Off-Road	0.9478	18.7614	25.2649	0.0399		0.8817	0.8817		0.8817	0.8817	0.0000	4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	0.9478	18.7614	25.2649	0.0399	0.3152	0.8817	1.1969	0.0477	0.8817	0.9294	0.0000	4,089.284 1	4,089.284 1	1.1121		4,112.637 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0629	1.1362	0.7523	2.7900e-003	0.0671	0.0171	0.0842	0.0183	0.0157	0.0341		281.2147	281.2147	1.7300e-003		281.2511
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
Worker	0.0534	0.0561	0.6446	1.4700e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		122.7044	122.7044	6.0600e-003		122.8317
Total	0.1163	1.1924	1.3969	4.2600e-003	0.1903	0.0181	0.2083	0.0510	0.0166	0.0676		403.9192	403.9192	7.7900e-003		404.0828

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	lb/day										lb/day					
Fugitive Dust					18.1154	0.0000	18.1154	9.9381	0.0000	9.9381			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.1154	2.9387	21.0541	9.9381	2.7036	12.6417		4,065.005 3	4,065.005 3	1.2262		4,090.754 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7117	12.8559	8.5119	0.0316	0.7587	0.1936	0.9523	0.2075	0.1780	0.3855		3,181.847 7	3,181.847 7	0.0196		3,182.258 9
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
Worker	0.0640	0.0674	0.7735	1.7600e-003	0.1479	1.1400e-003	0.1490	0.0392	1.0500e-003	0.0403		147.2453	147.2453	7.2700e-003		147.3981
Total	0.7757	12.9233	9.2854	0.0333	0.9066	0.1947	1.1013	0.2467	0.1791	0.4258		3,329.093 0	3,329.093 0	0.0269		3,329.657 0

3.3 Site Preparation - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7118	0.0000	6.7118	3.6821	0.0000	3.6821			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.9611	0.9611		0.9611	0.9611	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	0.9515	19.4584	23.4003	0.0391	6.7118	0.9611	7.6728	3.6821	0.9611	4.6432	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7117	12.8559	8.5119	0.0316	0.7587	0.1936	0.9523	0.2075	0.1780	0.3855		3,181.847 7	3,181.847 7	0.0196		3,182.258 9
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
Worker	0.0640	0.0674	0.7735	1.7600e-003	0.1479	1.1400e-003	0.1490	0.0392	1.0500e-003	0.0403		147.2453	147.2453	7.2700e-003		147.3981
Total	0.7757	12.9233	9.2854	0.0333	0.9066	0.1947	1.1013	0.2467	0.1791	0.4258		3,329.093 0	3,329.093 0	0.0269		3,329.657 0

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	lb/day										lb/day					
Fugitive Dust					8.9825	0.0000	8.9825	3.6433	0.0000	3.6433			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.9825	3.5842	12.5667	3.6433	3.2975	6.9408		6,414.9807	6,414.9807	1.9350		6,455.6154

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4734	80.8085	53.5032	0.1985	5.5553	1.2167	6.7720	1.4972	1.1190	2.6162		20,000.1854	20,000.1854	0.1231		20,002.7701
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
Worker	0.0711	0.0748	0.8595	1.9600e-003	0.1643	1.2700e-003	0.1656	0.0436	1.1700e-003	0.0448		163.6059	163.6059	8.0800e-003		163.7756
Total	4.5445	80.8833	54.3626	0.2005	5.7196	1.2179	6.9376	1.5407	1.1202	2.6609		20,163.7913	20,163.7913	0.1312		20,166.5457

3.4 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					3.3280	0.0000	3.3280	1.3499	0.0000	1.3499			0.0000				0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,414.9807	6,414.9807	1.9350			6,455.6154
Total	1.5128	29.7798	37.9432	0.0617	3.3280	1.3234	4.6514	1.3499	1.3234	2.6732	0.0000	6,414.9807	6,414.9807	1.9350			6,455.6154

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	4.4734	80.8085	53.5032	0.1985	5.5553	1.2167	6.7720	1.4972	1.1190	2.6162		20,000.1854	20,000.1854	0.1231			20,002.7701
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
Worker	0.0711	0.0748	0.8595	1.9600e-003	0.1643	1.2700e-003	0.1656	0.0436	1.1700e-003	0.0448		163.6059	163.6059	8.0800e-003			163.7756
Total	4.5445	80.8833	54.3626	0.2005	5.7196	1.2179	6.9376	1.5407	1.1202	2.6609		20,163.7913	20,163.7913	0.1312			20,166.5457

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9825	0.0000	8.9825	3.6433	0.0000	3.6433			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
Total	6.0991	69.5920	46.8050	0.0617	8.9825	3.3172	12.2997	3.6433	3.0518	6.6951		6,313.3690	6,313.3690	1.9344		6,353.9915

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.0129	72.2530	50.1350	0.1982	21.5854	1.0452	22.6306	5.4319	0.9615	6.3933		19,666.1045	19,666.1045	0.1151		19,668.5220
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
Worker	0.0643	0.0673	0.7743	1.9600e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		157.2611	157.2611	7.4200e-003		157.4169
Total	4.0772	72.3203	50.9093	0.2002	21.7497	1.0465	22.7962	5.4754	0.9626	6.4380		19,823.3656	19,823.3656	0.1225		19,825.9389

3.4 Grading - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3280	0.0000	3.3280	1.3499	0.0000	1.3499			0.0000			0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915
Total	1.5128	29.7798	37.9432	0.0617	3.3280	1.3234	4.6514	1.3499	1.3234	2.6732	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.0129	72.2530	50.1350	0.1982	21.5854	1.0452	22.6306	5.4319	0.9615	6.3933		19,666.1045	19,666.1045	0.1151		19,668.5220
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
Worker	0.0643	0.0673	0.7743	1.9600e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		157.2611	157.2611	7.4200e-003		157.4169
Total	4.0772	72.3203	50.9093	0.2002	21.7497	1.0465	22.7962	5.4754	0.9626	6.4380		19,823.3656	19,823.3656	0.1225		19,825.9389

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.8744	9.9679	10.8187	0.0256	0.7567	0.1577	0.9144	0.2151	0.1451	0.3602		2,530.6861	2,530.6861	0.0159		2,531.0190
Worker	0.9424	0.9859	11.3431	0.0287	2.4069	0.0180	2.4249	0.6384	0.0166	0.6550		2,303.8754	2,303.8754	0.1087		2,306.1575
Total	1.8168	10.9537	22.1618	0.0543	3.1636	0.1757	3.3393	0.8535	0.1616	1.0152		4,834.5615	4,834.5615	0.1245		4,837.1765

3.5 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.8744	9.9679	10.8187	0.0256	0.7567	0.1577	0.9144	0.2151	0.1451	0.3602		2,530.6861	2,530.6861	0.0159		2,531.0190
Worker	0.9424	0.9859	11.3431	0.0287	2.4069	0.0180	2.4249	0.6384	0.0166	0.6550		2,303.8754	2,303.8754	0.1087		2,306.1575
Total	1.8168	10.9537	22.1618	0.0543	3.1636	0.1757	3.3393	0.8535	0.1616	1.0152		4,834.5615	4,834.5615	0.1245		4,837.1765

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.8208	9.0598	10.3243	0.0256	0.7569	0.1472	0.9041	0.2152	0.1354	0.3506		2,489.2863	2,489.2863	0.0156		2,489.6138
Worker	0.8604	0.8939	10.3083	0.0287	2.4069	0.0176	2.4245	0.6384	0.0163	0.6547		2,217.6272	2,217.6272	0.1006		2,219.7403
Total	1.6811	9.9537	20.6326	0.0543	3.1638	0.1648	3.3286	0.8536	0.1517	1.0053		4,706.9135	4,706.9135	0.1162		4,709.3541

3.5 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.8208	9.0598	10.3243	0.0256	0.7569	0.1472	0.9041	0.2152	0.1354	0.3506		2,489.2863	2,489.2863	0.0156		2,489.6138
Worker	0.8604	0.8939	10.3083	0.0287	2.4069	0.0176	2.4245	0.6384	0.0163	0.6547		2,217.6272	2,217.6272	0.1006		2,219.7403
Total	1.6811	9.9537	20.6326	0.0543	3.1638	0.1648	3.3286	0.8536	0.1517	1.0053		4,706.9135	4,706.9135	0.1162		4,709.3541

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.9956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6070	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0441	0.0458	0.5277	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		113.5304	113.5304	5.1500e-003		113.6386
Total	0.0441	0.0458	0.5277	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		113.5304	113.5304	5.1500e-003		113.6386

3.6 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.9956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5446	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0441	0.0458	0.5277	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		113.5304	113.5304	5.1500e-003		113.6386
Total	0.0441	0.0458	0.5277	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		113.5304	113.5304	5.1500e-003		113.6386

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447		2,208.973 1	2,208.973 1	0.6989		2,223.649 9
Paving	0.9956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.4215	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447		2,208.973 1	2,208.973 1	0.6989		2,223.649 9

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0410	0.0421	0.4875	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		109.8104	109.8104	4.8600e-003		109.9124
Total	0.0410	0.0421	0.4875	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		109.8104	109.8104	4.8600e-003		109.9124

3.6 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,208.973 1	2,208.973 1	0.6989		2,223.649 9
Paving	0.9956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5446	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,208.973 1	2,208.973 1	0.6989		2,223.649 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0410	0.0421	0.4875	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		109.8104	109.8104	4.8600e-003		109.9124
Total	0.0410	0.0421	0.4875	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		109.8104	109.8104	4.8600e-003		109.9124

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.2724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	232.5711	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.1733	0.1800	2.0757	5.7700e-003	0.4847	3.5400e-003	0.4882	0.1286	3.2800e-003	0.1318		446.5529	446.5529	0.0203		446.9784
Total	0.1733	0.1800	2.0757	5.7700e-003	0.4847	3.5400e-003	0.4882	0.1286	3.2800e-003	0.1318		446.5529	446.5529	0.0203		446.9784

3.7 Architectural Coating - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.2724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267		282.0102
Total	232.3319	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267		282.0102

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.1733	0.1800	2.0757	5.7700e-003	0.4847	3.5400e-003	0.4882	0.1286	3.2800e-003	0.1318		446.5529	446.5529	0.0203		446.9784
Total	0.1733	0.1800	2.0757	5.7700e-003	0.4847	3.5400e-003	0.4882	0.1286	3.2800e-003	0.1318		446.5529	446.5529	0.0203		446.9784

3.7 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.2724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	232.5389	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.1612	0.1654	1.9174	5.7900e-003	0.4847	3.5300e-003	0.4882	0.1286	3.2700e-003	0.1318		431.9210	431.9210	0.0191		432.3221
Total	0.1612	0.1654	1.9174	5.7900e-003	0.4847	3.5300e-003	0.4882	0.1286	3.2700e-003	0.1318		431.9210	431.9210	0.0191		432.3221

3.7 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.2724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		281.9473
Total	232.3319	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		281.9473

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.1612	0.1654	1.9174	5.7900e-003	0.4847	3.5300e-003	0.4882	0.1286	3.2700e-003	0.1318		431.9210	431.9210	0.0191		432.3221
Total	0.1612	0.1654	1.9174	5.7900e-003	0.4847	3.5300e-003	0.4882	0.1286	3.2700e-003	0.1318		431.9210	431.9210	0.0191		432.3221

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

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	lb/day										lb/day					
Mitigated	10.2789	17.8865	91.1187	0.4086	28.7442	0.4254	29.1695	7.6636	0.3930	8.0566		29,008.56 32	29,008.56 32	0.7986		29,025.33 41
Unmitigated	10.5796	19.5630	99.2168	0.4570	32.2606	0.4705	32.7311	8.6011	0.4346	9.0358		32,440.12 94	32,440.12 94	0.8872		32,458.75 96

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	1,305.97	247.33	127.41	2,879,716	2,565,827
General Light Industry	1,531.24	289.99	149.39	3,376,447	3,008,414
General Light Industry	1,924.49	364.47	187.75	4,243,573	3,781,024
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	121.27	121.27	71.68	200,200	178,378
Regional Shopping Center	228.45	228.45	135.03	377,137	336,029
Regional Shopping Center	436.39	436.39	257.95	720,437	641,910
Total	5,547.80	1,687.89	929.22	11,797,510	10,511,581

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
City Park	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462361	0.064329	0.187151	0.161808	0.068181	0.010152	0.013866	0.019623	0.000750	0.000701	0.004466	0.000287	0.006323

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3931	3.5735	3.0018	0.0214		0.2716	0.2716		0.2716	0.2716		4,288.2317	4,288.2317	0.0822	0.0786	4,314.3291
NaturalGas Unmitigated	0.4379	3.9811	3.3441	0.0239		0.3026	0.3026		0.3026	0.3026		4,777.3067	4,777.3067	0.0916	0.0876	4,806.3806

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	lb/day										lb/day						
City Park	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
General Light Industry	11108.9	0.1198	1.0891	0.9149	6.5300e-003		0.0828	0.0828		0.0828	0.0828		1,306.9305	1,306.9305	0.0251	0.0240	1,314.8842	
General Light Industry	13025.2	0.1405	1.2770	1.0727	7.6600e-003		0.0971	0.0971		0.0971	0.0971		1,532.3771	1,532.3771	0.0294	0.0281	1,541.7028	
General Light Industry	16369.6	0.1765	1.6049	1.3481	9.6300e-003		0.1220	0.1220		0.1220	0.1220		1,925.8379	1,925.8379	0.0369	0.0353	1,937.5583	
Parking Lot	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
Regional Shopping Center	15.9282	1.7000e-004	1.5600e-003	1.3100e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.8739	1.8739	4.0000e-005	3.0000e-005	1.8853	
Regional Shopping Center	30.0311	3.2000e-004	2.9400e-003	2.4700e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.5331	3.5331	7.0000e-005	6.0000e-005	3.5546	
Regional Shopping Center	57.4112	6.2000e-004	5.6300e-003	4.7300e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.7543	6.7543	1.3000e-004	1.2000e-004	6.7954	
Total		0.4379	3.9811	3.3441	0.0239		0.3026	0.3026		0.3026	0.3026		4,777.3067	4,777.3067	0.0916	0.0876	4,806.3806	

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	lb/day										lb/day					
General Light Industry	11.6908	0.1261	1.1462	0.9628	6.8800e-003		0.0871	0.0871		0.0871	0.0871		1,375.3863	1,375.3863	0.0264	0.0252	1,383.7567
General Light Industry	14.6926	0.1585	1.4405	1.2100	8.6400e-003		0.1095	0.1095		0.1095	0.1095		1,728.5374	1,728.5374	0.0331	0.0317	1,739.0570
General Light Industry	9.97081	0.1075	0.9775	0.8211	5.8700e-003		0.0743	0.0743		0.0743	0.0743		1,173.0365	1,173.0365	0.0225	0.0215	1,180.1754
Parking Lot	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
Regional Shopping Center	0.0147627	1.6000e-004	1.4500e-003	1.2200e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.7368	1.7368	3.0000e-005	3.0000e-005	1.7474
Regional Shopping Center	0.0278337	3.0000e-004	2.7300e-003	2.2900e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.2746	3.2746	6.0000e-005	6.0000e-005	3.2945
Regional Shopping Center	0.0532104	5.7000e-004	5.2200e-003	4.3800e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.2601	6.2601	1.2000e-004	1.1000e-004	6.2982
City Park	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
Total		0.3931	3.5735	3.0018	0.0215		0.2716	0.2716		0.2716	0.2716		4,288.2316	4,288.2316	0.0822	0.0786	4,314.3291

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	18.3525	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Unmitigated	19.4750	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.4545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.0138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.6800e-003	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Total	19.4750	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.4545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.8912					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.6800e-003	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Total	18.3525	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Santa Paula West
Ventura County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	187.37	1000sqft	4.30	187,373.00	0
General Light Industry	219.69	1000sqft	5.04	219,695.00	0
General Light Industry	276.11	1000sqft	6.34	276,105.00	0
Parking Lot	13.30	Acre	13.30	0.00	0
City Park	3.65	Acre	3.65	0.00	0
Regional Shopping Center	2.84	1000sqft	0.00	2,836.00	0
Regional Shopping Center	5.35	1000sqft	0.00	5,347.00	0
Regional Shopping Center	10.22	1000sqft	0.00	10,222.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Traffic Study

Lot acreage for retail is 0 since it would be located within the general light industry building

Square feet is 0 for parking lot and city park since no architectural coating would be anticipated for those uses

Construction Phase - Construction Assumptions: Set to begin fall 2016

Trips and VMT -

Demolition - Office/Industrial/warehouse = 14,850 sq. ft.

Residential = 2,000 sq. ft.

1,178 tons of demo debris removed.

Grading - Approximately 99,000 cubic yards of during grading

Approximately 7,000 cubic yards of debris and material storage removal

Vehicle Trips - City park is associated with open space; no generated trips based on traffic study

Land Use Change - None

Construction Off-road Equipment Mitigation - Dust Control Mitigation

Mobile Land Use Mitigation -

Area Mitigation - ROG mitigation measures

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	75	50
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	70.00
tblConstructionPhase	PhaseEndDate	5/8/2019	3/20/2019
tblConstructionPhase	PhaseStartDate	1/31/2019	12/13/2018
tblGrading	MaterialExported	0.00	7,000.00
tblGrading	MaterialImported	0.00	99,000.00
tblLandUse	LandUseSquareFeet	187,370.00	187,373.00
tblLandUse	LandUseSquareFeet	219,690.00	219,695.00
tblLandUse	LandUseSquareFeet	276,110.00	276,105.00

tblLandUse	LandUseSquareFeet	579,348.00	0.00
tblLandUse	LandUseSquareFeet	158,994.00	0.00
tblLandUse	LandUseSquareFeet	10,220.00	10,222.00
tblLandUse	LandUseSquareFeet	2,840.00	2,836.00
tblLandUse	LandUseSquareFeet	5,350.00	5,347.00
tblLandUse	LotAcreage	0.23	0.00
tblLandUse	LotAcreage	0.07	0.00
tblLandUse	LotAcreage	0.12	0.00
tblProjectCharacteristics	OperationalYear	2014	2030
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	49.97	42.70
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	42.94	42.70

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	11.5917	158.6942	118.3900	0.2618	19.0221	4.8062	22.1561	10.1848	4.4214	13.0681	0.0000	26,522.38 62	26,522.38 62	2.0681	0.0000	26,565.81 57
2017	10.6424	144.5933	112.7202	0.2615	30.7322	4.3670	35.0991	9.1187	4.0175	13.1362	0.0000	26,081.37 82	26,081.37 82	2.0589	0.0000	26,124.61 49
2018	235.4107	33.6240	42.4962	0.0795	3.1638	1.6608	4.8246	0.8536	1.5580	2.4116	0.0000	7,189.865 7	7,189.865 7	0.7555	0.0000	7,205.730 7
2019	235.1763	17.0137	18.5961	0.0322	0.6079	0.9426	1.5505	0.1612	0.8775	1.0388	0.0000	3,006.095 0	3,006.095 0	0.7466	0.0000	3,021.774 1
Total	492.8211	353.9253	292.2026	0.6351	53.5259	11.7766	63.6303	20.3184	10.8745	29.6547	0.0000	62,799.72 51	62,799.72 51	5.6291	0.0000	62,917.93 54

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	19.4750	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Energy	0.4379	3.9811	3.3441	0.0239		0.3026	0.3026		0.3026	0.3026		4,777.3067	4,777.3067	0.0916	0.0876	4,806.3806
Mobile	11.2615	21.1869	108.1176	0.4391	32.2606	0.4718	32.7324	8.6011	0.4359	9.0370		31,249.8149	31,249.8149	0.8883		31,268.4696
Total	31.1744	25.1686	111.5347	0.4630	32.2606	0.7747	33.0352	8.6011	0.7387	9.3398		36,027.2788	36,027.2788	0.9803	0.0876	36,075.0159

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.3525	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Energy	0.3931	3.5735	3.0018	0.0214		0.2716	0.2716		0.2716	0.2716		4,288.2317	4,288.2317	0.0822	0.0786	4,314.3291
Mobile	10.9651	19.3558	100.5670	0.3927	28.7442	0.4267	29.1709	7.6636	0.3942	8.0578		27,944.4362	27,944.4362	0.7998		27,961.2316
Total	29.7106	22.9300	103.6417	0.4142	28.7442	0.6986	29.4427	7.6636	0.6661	8.3297		32,232.8251	32,232.8251	0.8824	0.0786	32,275.7265

	ROG	NOx	CO	SO2	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	4.70	8.89	7.08	10.55	10.90	9.82	10.87	10.90	9.83	10.82	0.00	10.53	10.53	9.99	10.23	10.53

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	9/1/2016	10/12/2016	5	30	
2	Site Preparation	Site Preparation	10/13/2016	11/9/2016	5	20	
3	Grading	Grading	11/10/2016	1/11/2017	5	45	
4	Building Construction	Building Construction	1/12/2017	12/12/2018	5	500	
5	Paving	Paving	12/13/2018	1/30/2019	5	35	
6	Architectural Coating	Architectural Coating	12/13/2018	3/20/2019	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,052,367; Non-Residential Outdoor: 350,789 (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	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
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	116.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	875.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	12,375.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	115.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved 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	lb/day										lb/day					
Fugitive Dust					0.8508	0.0000	0.8508	0.1288	0.0000	0.1288			0.0000			0.0000
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	4.2876	45.6559	35.0303	0.0399	0.8508	2.2921	3.1429	0.1288	2.1365	2.2654		4,089.284 1	4,089.284 1	1.1121		4,112.637 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0708	1.1782	0.9615	2.7900e-003	0.0671	0.0172	0.0842	0.0183	0.0158	0.0341		280.5322	280.5322	1.7600e-003		280.5692
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
Worker	0.0575	0.0657	0.6510	1.4000e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		116.8194	116.8194	6.0600e-003		116.9467
Total	0.1283	1.2439	1.6125	4.1900e-003	0.1903	0.0181	0.2084	0.0510	0.0167	0.0677		397.3516	397.3516	7.8200e-003		397.5158

3.2 Demolition - 2016**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3152	0.0000	0.3152	0.0477	0.0000	0.0477			0.0000			0.0000
Off-Road	0.9478	18.7614	25.2649	0.0399		0.8817	0.8817		0.8817	0.8817	0.0000	4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	0.9478	18.7614	25.2649	0.0399	0.3152	0.8817	1.1969	0.0477	0.8817	0.9294	0.0000	4,089.284 1	4,089.284 1	1.1121		4,112.637 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0708	1.1782	0.9615	2.7900e-003	0.0671	0.0172	0.0842	0.0183	0.0158	0.0341		280.5322	280.5322	1.7600e-003		280.5692
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
Worker	0.0575	0.0657	0.6510	1.4000e-003	0.1232	9.5000e-004	0.1242	0.0327	8.8000e-004	0.0336		116.8194	116.8194	6.0600e-003		116.9467
Total	0.1283	1.2439	1.6125	4.1900e-003	0.1903	0.0181	0.2084	0.0510	0.0167	0.0677		397.3516	397.3516	7.8200e-003		397.5158

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	lb/day										lb/day					
Fugitive Dust					18.1154	0.0000	18.1154	9.9381	0.0000	9.9381			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	5.0771	54.6323	41.1053	0.0391	18.1154	2.9387	21.0541	9.9381	2.7036	12.6417		4,065.005 3	4,065.005 3	1.2262		4,090.754 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8011	13.3307	10.8794	0.0315	0.7587	0.1942	0.9529	0.2075	0.1786	0.3861		3,174.125 6	3,174.125 6	0.0199		3,174.543 2
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
Worker	0.0691	0.0788	0.7812	1.6800e-003	0.1479	1.1400e-003	0.1490	0.0392	1.0500e-003	0.0403		140.1833	140.1833	7.2700e-003		140.3360
Total	0.8702	13.4095	11.6606	0.0332	0.9066	0.1953	1.1020	0.2467	0.1797	0.4264		3,314.308 8	3,314.308 8	0.0272		3,314.879 2

3.3 Site Preparation - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7118	0.0000	6.7118	3.6821	0.0000	3.6821			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.9611	0.9611		0.9611	0.9611	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4
Total	0.9515	19.4584	23.4003	0.0391	6.7118	0.9611	7.6728	3.6821	0.9611	4.6432	0.0000	4,065.005 3	4,065.005 3	1.2262		4,090.754 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8011	13.3307	10.8794	0.0315	0.7587	0.1942	0.9529	0.2075	0.1786	0.3861		3,174.125 6	3,174.125 6	0.0199		3,174.543 2
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
Worker	0.0691	0.0788	0.7812	1.6800e-003	0.1479	1.1400e-003	0.1490	0.0392	1.0500e-003	0.0403		140.1833	140.1833	7.2700e-003		140.3360
Total	0.8702	13.4095	11.6606	0.0332	0.9066	0.1953	1.1020	0.2467	0.1797	0.4264		3,314.308 8	3,314.308 8	0.0272		3,314.879 2

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	lb/day										lb/day					
Fugitive Dust					8.9825	0.0000	8.9825	3.6433	0.0000	3.6433			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	6.4795	74.8137	49.1374	0.0617	8.9825	3.5842	12.5667	3.6433	3.2975	6.9408		6,414.9807	6,414.9807	1.9350		6,455.6154

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0355	83.7929	68.3847	0.1983	5.5553	1.2207	6.7761	1.4972	1.1228	2.6199		19,951.6463	19,951.6463	0.1250		19,954.2714
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
Worker	0.0767	0.0876	0.8680	1.8600e-003	0.1643	1.2700e-003	0.1656	0.0436	1.1700e-003	0.0448		155.7592	155.7592	8.0800e-003		155.9289
Total	5.1122	83.8805	69.2526	0.2001	5.7196	1.2220	6.9416	1.5407	1.1239	2.6647		20,107.4055	20,107.4055	0.1331		20,110.2003

3.4 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3280	0.0000	3.3280	1.3499	0.0000	1.3499			0.0000			0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	1.5128	29.7798	37.9432	0.0617	3.3280	1.3234	4.6514	1.3499	1.3234	2.6732	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0355	83.7929	68.3847	0.1983	5.5553	1.2207	6.7761	1.4972	1.1228	2.6199		19,951.6463	19,951.6463	0.1250		19,954.2714
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
Worker	0.0767	0.0876	0.8680	1.8600e-003	0.1643	1.2700e-003	0.1656	0.0436	1.1700e-003	0.0448		155.7592	155.7592	8.0800e-003		155.9289
Total	5.1122	83.8805	69.2526	0.2001	5.7196	1.2220	6.9416	1.5407	1.1239	2.6647		20,107.4055	20,107.4055	0.1331		20,110.2003

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9825	0.0000	8.9825	3.6433	0.0000	3.6433			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
Total	6.0991	69.5920	46.8050	0.0617	8.9825	3.3172	12.2997	3.6433	3.0518	6.6951		6,313.3690	6,313.3690	1.9344		6,353.9915

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4742	74.9226	65.1380	0.1980	21.5854	1.0486	22.6340	5.4319	0.9645	6.3964		19,618.3000	19,618.3000	0.1171		19,620.7583
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
Worker	0.0691	0.0788	0.7772	1.8600e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		149.7092	149.7092	7.4200e-003		149.8650
Total	4.5433	75.0014	65.9152	0.1998	21.7497	1.0498	22.7995	5.4754	0.9656	6.4411		19,768.0092	19,768.0092	0.1245		19,770.6234

3.4 Grading - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					3.3280	0.0000	3.3280	1.3499	0.0000	1.3499			0.0000				0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,313.3690	6,313.3690	1.9344			6,353.9915
Total	1.5128	29.7798	37.9432	0.0617	3.3280	1.3234	4.6514	1.3499	1.3234	2.6732	0.0000	6,313.3690	6,313.3690	1.9344			6,353.9915

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	4.4742	74.9226	65.1380	0.1980	21.5854	1.0486	22.6340	5.4319	0.9645	6.3964		19,618.3000	19,618.3000	0.1171			19,620.7583
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
Worker	0.0691	0.0788	0.7772	1.8600e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447		149.7092	149.7092	7.4200e-003			149.8650
Total	4.5433	75.0014	65.9152	0.1998	21.7497	1.0498	22.7995	5.4754	0.9656	6.4411		19,768.0092	19,768.0092	0.1245			19,770.6234

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	1.0335	10.2552	15.2457	0.0255	0.7567	0.1596	0.9163	0.2151	0.1468	0.3619		2,509.9935	2,509.9935	0.0164		2,510.3377
Worker	1.0125	1.1544	11.3866	0.0273	2.4069	0.0180	2.4249	0.6384	0.0166	0.6550		2,193.2404	2,193.2404	0.1087		2,195.5225
Total	2.0460	11.4096	26.6323	0.0528	3.1636	0.1776	3.3412	0.8535	0.1634	1.0169		4,703.2339	4,703.2339	0.1251		4,705.8602

3.5 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	1.0335	10.2552	15.2457	0.0255	0.7567	0.1596	0.9163	0.2151	0.1468	0.3619		2,509.9935	2,509.9935	0.0164		2,510.3377
Worker	1.0125	1.1544	11.3866	0.0273	2.4069	0.0180	2.4249	0.6384	0.0166	0.6550		2,193.2404	2,193.2404	0.1087		2,195.5225
Total	2.0460	11.4096	26.6323	0.0528	3.1636	0.1776	3.3412	0.8535	0.1634	1.0169		4,703.2339	4,703.2339	0.1251		4,705.8602

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.9640	9.3162	14.6736	0.0255	0.7569	0.1489	0.9058	0.2152	0.1370	0.3522		2,468.8936	2,468.8936	0.0162		2,469.2328
Worker	0.9211	1.0470	10.2900	0.0273	2.4069	0.0176	2.4245	0.6384	0.0163	0.6547		2,111.0332	2,111.0332	0.1006		2,113.1462
Total	1.8851	10.3631	24.9636	0.0527	3.1638	0.1665	3.3303	0.8536	0.1533	1.0069		4,579.9268	4,579.9268	0.1168		4,582.3790

3.5 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.9640	9.3162	14.6736	0.0255	0.7569	0.1489	0.9058	0.2152	0.1370	0.3522		2,468.8936	2,468.8936	0.0162		2,469.2328
Worker	0.9211	1.0470	10.2900	0.0273	2.4069	0.0176	2.4245	0.6384	0.0163	0.6547		2,111.0332	2,111.0332	0.1006		2,113.1462
Total	1.8851	10.3631	24.9636	0.0527	3.1638	0.1665	3.3303	0.8536	0.1533	1.0069		4,579.9268	4,579.9268	0.1168		4,582.3790

3.6 Paving - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.9956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6070	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0472	0.0536	0.5268	1.4000e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		108.0734	108.0734	5.1500e-003		108.1816
Total	0.0472	0.0536	0.5268	1.4000e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		108.0734	108.0734	5.1500e-003		108.1816

3.6 Paving - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.9956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5446	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0472	0.0536	0.5268	1.4000e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		108.0734	108.0734	5.1500e-003		108.1816
Total	0.0472	0.0536	0.5268	1.4000e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		108.0734	108.0734	5.1500e-003		108.1816

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447		2,208.973 1	2,208.973 1	0.6989		2,223.649 9
Paving	0.9956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.4215	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447		2,208.973 1	2,208.973 1	0.6989		2,223.649 9

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0438	0.0493	0.4844	1.4000e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		104.5285	104.5285	4.8600e-003		104.6305
Total	0.0438	0.0493	0.4844	1.4000e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		104.5285	104.5285	4.8600e-003		104.6305

3.6 Paving - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,208.973 1	2,208.973 1	0.6989		2,223.649 9
Paving	0.9956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5446	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,208.973 1	2,208.973 1	0.6989		2,223.649 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0438	0.0493	0.4844	1.4000e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		104.5285	104.5285	4.8600e-003		104.6305
Total	0.0438	0.0493	0.4844	1.4000e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		104.5285	104.5285	4.8600e-003		104.6305

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.2724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	232.5711	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.1855	0.2108	2.0720	5.4900e-003	0.4847	3.5400e-003	0.4882	0.1286	3.2800e-003	0.1318		425.0886	425.0886	0.0203		425.5141
Total	0.1855	0.2108	2.0720	5.4900e-003	0.4847	3.5400e-003	0.4882	0.1286	3.2800e-003	0.1318		425.0886	425.0886	0.0203		425.5141

3.7 Architectural Coating - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.2724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267		282.0102
Total	232.3319	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267		282.0102

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.1855	0.2108	2.0720	5.4900e-003	0.4847	3.5400e-003	0.4882	0.1286	3.2800e-003	0.1318		425.0886	425.0886	0.0203		425.5141
Total	0.1855	0.2108	2.0720	5.4900e-003	0.4847	3.5400e-003	0.4882	0.1286	3.2800e-003	0.1318		425.0886	425.0886	0.0203		425.5141

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.2724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	232.5389	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.1722	0.1938	1.9053	5.5100e-003	0.4847	3.5300e-003	0.4882	0.1286	3.2700e-003	0.1318		411.1453	411.1453	0.0191		411.5465
Total	0.1722	0.1938	1.9053	5.5100e-003	0.4847	3.5300e-003	0.4882	0.1286	3.2700e-003	0.1318		411.1453	411.1453	0.0191		411.5465

3.7 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.2724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		281.9473
Total	232.3319	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		281.9473

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.1722	0.1938	1.9053	5.5100e-003	0.4847	3.5300e-003	0.4882	0.1286	3.2700e-003	0.1318		411.1453	411.1453	0.0191		411.5465
Total	0.1722	0.1938	1.9053	5.5100e-003	0.4847	3.5300e-003	0.4882	0.1286	3.2700e-003	0.1318		411.1453	411.1453	0.0191		411.5465

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

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	lb/day										lb/day					
Mitigated	10.9651	19.3558	100.5670	0.3927	28.7442	0.4267	29.1709	7.6636	0.3942	8.0578		27,944.43 62	27,944.43 62	0.7998		27,961.23 16
Unmitigated	11.2615	21.1869	108.1176	0.4391	32.2606	0.4718	32.7324	8.6011	0.4359	9.0370		31,249.81 49	31,249.81 49	0.8883		31,268.46 96

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	1,305.97	247.33	127.41	2,879,716	2,565,827
General Light Industry	1,531.24	289.99	149.39	3,376,447	3,008,414
General Light Industry	1,924.49	364.47	187.75	4,243,573	3,781,024
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	121.27	121.27	71.68	200,200	178,378
Regional Shopping Center	228.45	228.45	135.03	377,137	336,029
Regional Shopping Center	436.39	436.39	257.95	720,437	641,910
Total	5,547.80	1,687.89	929.22	11,797,510	10,511,581

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
City Park	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.462361	0.064329	0.187151	0.161808	0.068181	0.010152	0.013866	0.019623	0.000750	0.000701	0.004466	0.000287	0.006323

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3931	3.5735	3.0018	0.0214		0.2716	0.2716		0.2716	0.2716		4,288.2317	4,288.2317	0.0822	0.0786	4,314.3291
NaturalGas Unmitigated	0.4379	3.9811	3.3441	0.0239		0.3026	0.3026		0.3026	0.3026		4,777.3067	4,777.3067	0.0916	0.0876	4,806.3806

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	lb/day										lb/day					
City Park	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
General Light Industry	11108.9	0.1198	1.0891	0.9149	6.5300e-003		0.0828	0.0828		0.0828	0.0828		1,306.9305	1,306.9305	0.0251	0.0240	1,314.8842
General Light Industry	13025.2	0.1405	1.2770	1.0727	7.6600e-003		0.0971	0.0971		0.0971	0.0971		1,532.3771	1,532.3771	0.0294	0.0281	1,541.7028
General Light Industry	16369.6	0.1765	1.6049	1.3481	9.6300e-003		0.1220	0.1220		0.1220	0.1220		1,925.8379	1,925.8379	0.0369	0.0353	1,937.5583
Parking Lot	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
Regional Shopping Center	15.9282	1.7000e-004	1.5600e-003	1.3100e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.8739	1.8739	4.0000e-005	3.0000e-005	1.8853
Regional Shopping Center	30.0311	3.2000e-004	2.9400e-003	2.4700e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.5331	3.5331	7.0000e-005	6.0000e-005	3.5546
Regional Shopping Center	57.4112	6.2000e-004	5.6300e-003	4.7300e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.7543	6.7543	1.3000e-004	1.2000e-004	6.7954
Total		0.4379	3.9811	3.3441	0.0239		0.3026	0.3026		0.3026	0.3026		4,777.3067	4,777.3067	0.0916	0.0876	4,806.3806

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	lb/day										lb/day					
General Light Industry	11.6908	0.1261	1.1462	0.9628	6.8800e-003		0.0871	0.0871		0.0871	0.0871		1,375.3863	1,375.3863	0.0264	0.0252	1,383.7567
General Light Industry	14.6926	0.1585	1.4405	1.2100	8.6400e-003		0.1095	0.1095		0.1095	0.1095		1,728.5374	1,728.5374	0.0331	0.0317	1,739.0570
General Light Industry	9.97081	0.1075	0.9775	0.8211	5.8700e-003		0.0743	0.0743		0.0743	0.0743		1,173.0365	1,173.0365	0.0225	0.0215	1,180.1754
Parking Lot	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
Regional Shopping Center	0.0147627	1.6000e-004	1.4500e-003	1.2200e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.7368	1.7368	3.0000e-005	3.0000e-005	1.7474
Regional Shopping Center	0.0278337	3.0000e-004	2.7300e-003	2.2900e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.2746	3.2746	6.0000e-005	6.0000e-005	3.2945
Regional Shopping Center	0.0532104	5.7000e-004	5.2200e-003	4.3800e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.2601	6.2601	1.2000e-004	1.1000e-004	6.2982
City Park	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
Total		0.3931	3.5735	3.0018	0.0215		0.2716	0.2716		0.2716	0.2716		4,288.2316	4,288.2316	0.0822	0.0786	4,314.3291

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	18.3525	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Unmitigated	19.4750	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.4545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.0138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.6800e-003	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Total	19.4750	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.4545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.8912					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.6800e-003	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658
Total	18.3525	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1573	0.1573	4.1000e-004		0.1658

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

DPM total (lbs)	Total Calendar Days	Hours/Day	ER (lb/hr)	# Sources	Individual Sour
727.4	930	24	0.0326	502	6.49195E-05

g/s

8.17986E-06

HRA To Be Added.