

Enclave Reduced Density Alternative
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	79.00	Space	0.00	0.00	0
Other Asphalt Surfaces	18.00	1000sqft	0.00	18,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	35.00	Dwelling Unit	0.72	54,563.00	91

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 50% density reduction alternative. Population is 2.6 res per unit

Construction Phase - Construction assumptions based on 50% density reduction

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating -

[illegible]

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	120.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	6.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.00
tblGrading	MaterialExported	0.00	18,500.00
tblLandUse	LandUseSquareFeet	31,600.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	35,000.00	54,563.00
tblLandUse	LotAcreage	0.71	0.00
tblLandUse	LotAcreage	0.41	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	0.92	0.72
tblLandUse	Population	100.00	91.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	32.66	12.58
tblSolidWaste	SolidWasteGenerationRate	4.33	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripNumber	2,818.00	0.00
tblTripsAndVMT	VendorTripNumber	8.00	9.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	53.00	54.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	4,625,935.82	2,036,571.00
tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2015	0.1278	1.1215	0.7354	9.3000e-004	0.0632	0.0796	0.1428	0.0285	0.0736	0.1021	0.0000	86.5898	86.5898	0.0218	0.0000	87.0469
2016	0.4911	1.6015	1.4428	2.3900e-003	0.1084	0.1024	0.2108	0.0417	0.0975	0.1391	0.0000	202.6642	202.6642	0.0323	0.0000	203.3434
Total	0.6189	2.7230	2.1782	3.3200e-003	0.1716	0.1820	0.3536	0.0701	0.1711	0.2412	0.0000	289.2540	289.2540	0.0541	0.0000	290.3902

Mitigated 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					
2015	0.0236	0.4391	0.6404	9.3000e-004	0.0296	0.0263	0.0559	0.0124	0.0263	0.0387	0.0000	86.5897	86.5897	0.0218	0.0000	87.0468
2016	0.3320	0.8760	1.3916	2.3900e-003	0.0806	0.0494	0.1300	0.0265	0.0493	0.0758	0.0000	202.6640	202.6640	0.0323	0.0000	203.3432
Total	0.3555	1.3151	2.0320	3.3200e-003	0.1102	0.0757	0.1859	0.0389	0.0756	0.1145	0.0000	289.2537	289.2537	0.0541	0.0000	290.3900

	ROG	NOx	CO	SO2	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	42.56	51.70	6.71	0.00	35.77	58.39	47.41	44.51	55.83	52.54	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Energy	1.4300e-003	0.0123	5.5200e-003	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	81.9029	81.9029	2.0300e-003	6.2000e-004	82.1391
Mobile	0.1660	0.5204	1.9939	4.5100e-003	0.3014	7.1300e-003	0.3085	0.0807	6.5600e-003	0.0873	0.0000	361.2570	361.2570	0.0154	0.0000	361.5813
Waste						0.0000	0.0000		0.0000	0.0000	2.5536	0.0000	2.5536	0.1509	0.0000	5.7228
Water						0.0000	0.0000		0.0000	0.0000	0.6461	13.4157	14.0618	0.0667	1.6400e-003	15.9709
Total	0.4704	0.5370	2.3666	4.6100e-003	0.3014	0.0101	0.3115	0.0807	9.5300e-003	0.0902	3.1997	457.1676	460.3674	0.2357	2.2600e-003	466.0189

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Energy	1.2700e-003	0.0109	4.8800e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	79.3996	79.3996	1.9800e-003	5.9000e-004	79.6239
Mobile	0.1554	0.4426	1.7381	3.7600e-003	0.2497	5.9700e-003	0.2557	0.0669	5.4900e-003	0.0724	0.0000	300.8168	300.8168	0.0130	0.0000	301.0898
Waste						0.0000	0.0000		0.0000	0.0000	1.2768	0.0000	1.2768	0.0755	0.0000	2.8614
Water						0.0000	0.0000		0.0000	0.0000	0.5169	10.3600	10.8769	0.0534	1.3100e-003	12.4033
Total	0.4597	0.4578	2.1103	3.8500e-003	0.2497	8.8300e-003	0.2585	0.0669	8.3500e-003	0.0752	1.7937	391.1684	392.9621	0.1444	1.9000e-003	396.5833

	ROG	NOx	CO	SO2	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	2.29	14.75	10.83	16.49	17.14	12.57	17.00	17.15	12.38	16.64	43.94	14.44	14.64	38.73	15.93	14.90

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	10/5/2016	5	180	
5	Paving	Paving	10/6/2016	10/19/2016	5	10	
6	Architectural Coating	Architectural Coating	10/20/2016	12/28/2016	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 110,490; Residential Outdoor: 36,830; Non-Residential Indoor: 6,542; Non-Residential Outdoor: 2,181 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.5000e-003	0.0000	9.5000e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0177	0.1493	0.1102	1.5000e-004		0.0109	0.0109		0.0105	0.0105	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	0.0177	0.1493	0.1102	1.5000e-004	9.5000e-003	0.0109	0.0204	1.4400e-003	0.0105	0.0119	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734

3.2 Demolition - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
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	6.1000e-004	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7000e-003	0.0000	3.7000e-003	5.6000e-004	0.0000	5.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3300e-003	0.0748	0.0995	1.5000e-004		5.0300e-003	5.0300e-003		5.0300e-003	5.0300e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	3.3300e-003	0.0748	0.0995	1.5000e-004	3.7000e-003	5.0300e-003	8.7300e-003	5.6000e-004	5.0300e-003	5.5900e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734

3.2 Demolition - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
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	6.1000e-004	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130

3.3 Site Preparation - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-003	0.0322	0.0167	2.0000e-005		1.9800e-003	1.9800e-003		1.8200e-003	1.8200e-003	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222
Total	3.2000e-003	0.0322	0.0167	2.0000e-005	0.0000	1.9800e-003	1.9800e-003	0.0000	1.8200e-003	1.8200e-003	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222

3.3 Site Preparation - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323
Total	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	0.0105	0.0157	2.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222
Total	5.1000e-004	0.0105	0.0157	2.0000e-005	0.0000	5.9000e-004	5.9000e-004	0.0000	5.9000e-004	5.9000e-004	0.0000	2.0096	2.0096	6.0000e-004	0.0000	2.0222

3.3 Site Preparation - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323
Total	1.5000e-004	2.1000e-004	2.2100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3319	0.3319	2.0000e-005	0.0000	0.3323

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0456	0.0000	0.0456	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1027	0.9179	0.5487	6.3000e-004		0.0663	0.0663		0.0610	0.0610	0.0000	60.0363	60.0363	0.0179	0.0000	60.4127
Total	0.1027	0.9179	0.5487	6.3000e-004	0.0456	0.0663	0.1119	0.0249	0.0610	0.0859	0.0000	60.0363	60.0363	0.0179	0.0000	60.4127

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933
Total	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933

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					0.0178	0.0000	0.0178	9.7000e-003	0.0000	9.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3317	0.4652	6.3000e-004		0.0203	0.0203		0.0203	0.0203	0.0000	60.0362	60.0362	0.0179	0.0000	60.4126
Total	0.0155	0.3317	0.4652	6.3000e-004	0.0178	0.0203	0.0381	9.7000e-003	0.0203	0.0300	0.0000	60.0362	60.0362	0.0179	0.0000	60.4126

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933
Total	2.4500e-003	3.5600e-003	0.0371	7.0000e-005	5.5300e-003	6.0000e-005	5.5900e-003	1.4700e-003	5.0000e-005	1.5200e-003	0.0000	5.5863	5.5863	3.3000e-004	0.0000	5.5933

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					0.0456	0.0000	0.0456	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1645	0.1019	1.2000e-004		0.0118	0.0118		0.0109	0.0109	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2345
Total	0.0185	0.1645	0.1019	1.2000e-004	0.0456	0.0118	0.0574	0.0249	0.0109	0.0358	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2345

3.4 Grading - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170
Total	4.1000e-004	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170

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					0.0178	0.0000	0.0178	9.7000e-003	0.0000	9.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0624	0.0875	1.2000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2344
Total	2.9100e-003	0.0624	0.0875	1.2000e-004	0.0178	3.8200e-003	0.0216	9.7000e-003	3.8200e-003	0.0135	0.0000	11.1637	11.1637	3.3700e-003	0.0000	11.2344

3.4 Grading - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170
Total	4.1000e-004	6.1000e-004	6.3200e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0158	1.0158	6.0000e-005	0.0000	1.0170

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1645	1.2240	0.8164	1.2400e-003		0.0810	0.0810		0.0774	0.0774	0.0000	108.5631	108.5631	0.0237	0.0000	109.0615
Total	0.1645	1.2240	0.8164	1.2400e-003		0.0810	0.0810		0.0774	0.0774	0.0000	108.5631	108.5631	0.0237	0.0000	109.0615

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2800e-003	0.0741	0.0963	1.8000e-004	4.9700e-003	1.1100e-003	6.0800e-003	1.4200e-003	1.0200e-003	2.4400e-003	0.0000	16.1258	16.1258	1.2000e-004	0.0000	16.1283
Worker	0.0212	0.0310	0.3233	6.8000e-004	0.0533	5.1000e-004	0.0538	0.0141	4.7000e-004	0.0146	0.0000	51.9670	51.9670	2.9500e-003	0.0000	52.0289
Total	0.0285	0.1051	0.4195	8.6000e-004	0.0582	1.6200e-003	0.0599	0.0156	1.4900e-003	0.0171	0.0000	68.0928	68.0928	3.0700e-003	0.0000	68.1573

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	0.0323	0.6507	0.7803	1.2400e-003		0.0403	0.0403		0.0403	0.0403	0.0000	108.5630	108.5630	0.0237	0.0000	109.0614
Total	0.0323	0.6507	0.7803	1.2400e-003		0.0403	0.0403		0.0403	0.0403	0.0000	108.5630	108.5630	0.0237	0.0000	109.0614

3.5 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2800e-003	0.0741	0.0963	1.8000e-004	4.9700e-003	1.1100e-003	6.0800e-003	1.4200e-003	1.0200e-003	2.4400e-003	0.0000	16.1258	16.1258	1.2000e-004	0.0000	16.1283
Worker	0.0212	0.0310	0.3233	6.8000e-004	0.0533	5.1000e-004	0.0538	0.0141	4.7000e-004	0.0146	0.0000	51.9670	51.9670	2.9500e-003	0.0000	52.0289
Total	0.0285	0.1051	0.4195	8.6000e-004	0.0582	1.6200e-003	0.0599	0.0156	1.4900e-003	0.0171	0.0000	68.0928	68.0928	3.0700e-003	0.0000	68.1573

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0459	0.0299	4.0000e-005		2.9700e-003	2.9700e-003		2.7400e-003	2.7400e-003	0.0000	3.9704	3.9704	1.1600e-003	0.0000	3.9949
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.7100e-003	0.0459	0.0299	4.0000e-005		2.9700e-003	2.9700e-003		2.7400e-003	2.7400e-003	0.0000	3.9704	3.9704	1.1600e-003	0.0000	3.9949

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5346	0.5346	3.0000e-005	0.0000	0.5353
Total	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5346	0.5346	3.0000e-005	0.0000	0.5353

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	9.9000e-004	0.0212	0.0305	4.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	3.9704	3.9704	1.1600e-003	0.0000	3.9949
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.9000e-004	0.0212	0.0305	4.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	3.9704	3.9704	1.1600e-003	0.0000	3.9949

3.6 Paving - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5346	0.5346	3.0000e-005	0.0000	0.5353
Total	2.2000e-004	3.2000e-004	3.3300e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5346	0.5346	3.0000e-005	0.0000	0.5353

3.7 Architectural Coating - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2639					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2100e-003	0.0593	0.0471	7.0000e-005		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	6.3831	6.3831	7.5000e-004	0.0000	6.3989
Total	0.2731	0.0593	0.0471	7.0000e-005		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	6.3831	6.3831	7.5000e-004	0.0000	6.3989

3.7 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	1.7500e-003	0.0183	4.0000e-005	3.0100e-003	3.0000e-005	3.0400e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	2.9405	2.9405	1.7000e-004	0.0000	2.9440
Total	1.2000e-003	1.7500e-003	0.0183	4.0000e-005	3.0100e-003	3.0000e-005	3.0400e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	2.9405	2.9405	1.7000e-004	0.0000	2.9440

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	0.2639					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0339	0.0458	7.0000e-005		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	6.3831	6.3831	7.5000e-004	0.0000	6.3989
Total	0.2654	0.0339	0.0458	7.0000e-005		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	6.3831	6.3831	7.5000e-004	0.0000	6.3989

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	1.7500e-003	0.0183	4.0000e-005	3.0100e-003	3.0000e-005	3.0400e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	2.9405	2.9405	1.7000e-004	0.0000	2.9440
Total	1.2000e-003	1.7500e-003	0.0183	4.0000e-005	3.0100e-003	3.0000e-005	3.0400e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	2.9405	2.9405	1.7000e-004	0.0000	2.9440

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1554	0.4426	1.7381	3.7600e-003	0.2497	5.9700e-003	0.2557	0.0669	5.4900e-003	0.0724	0.0000	300.8168	300.8168	0.0130	0.0000	301.0898
Unmitigated	0.1660	0.5204	1.9939	4.5100e-003	0.3014	7.1300e-003	0.3085	0.0807	6.5600e-003	0.0873	0.0000	361.2570	361.2570	0.0154	0.0000	361.5813

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	232.75	232.75	232.75	795,342	658,985
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	232.75	232.75	232.75	795,342	658,985

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	66.8495	66.8495	1.7400e-003	3.6000e-004	66.9975
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	67.7178	67.7178	1.7600e-003	3.6000e-004	67.8677
NaturalGas Mitigated	1.2700e-003	0.0109	4.8800e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.5500	12.5500	2.4000e-004	2.3000e-004	12.6264
NaturalGas Unmitigated	1.4300e-003	0.0123	5.5200e-003	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	14.1851	14.1851	2.7000e-004	2.6000e-004	14.2714

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	14314.4	8.0000e-005	7.0000e-004	5.9000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7639	0.7639	1.0000e-005	1.0000e-005	0.7685
Other Asphalt Surfaces	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
Apartments Mid Rise	251504	1.3600e-003	0.0116	4.9300e-003	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	13.4212	13.4212	2.6000e-004	2.5000e-004	13.5029
Total		1.4400e-003	0.0123	5.5200e-003	7.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	14.1851	14.1851	2.7000e-004	2.6000e-004	14.2714

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	12675.2	7.0000e-005	6.2000e-004	5.2000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6764	0.6764	1.0000e-005	1.0000e-005	0.6805
Other Asphalt Surfaces	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
Apartments Mid Rise	222504	1.2000e-003	0.0103	4.3600e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	11.8736	11.8736	2.3000e-004	2.2000e-004	11.9459
Total		1.2700e-003	0.0109	4.8800e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.5500	12.5500	2.4000e-004	2.3000e-004	12.6264

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	124685	63.0786	1.6400e-003	3.4000e-004	63.2183
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	9170.05	4.6392	1.2000e-004	2.0000e-005	4.6495
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		67.7178	1.7600e-003	3.6000e-004	67.8677

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	123282	62.3692	1.6200e-003	3.4000e-004	62.5072
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	8856.14	4.4804	1.2000e-004	2.0000e-005	4.4903
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		66.8495	1.7400e-003	3.6000e-004	66.9975

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	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Unmitigated	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048

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	0.0264					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0117	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Total	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0264					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0117	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048
Total	0.3030	4.2900e-003	0.3673	2.0000e-005		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	0.5920	0.5920	6.1000e-004	0.0000	0.6048

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.8769	0.0534	1.3100e-003	12.4033
Unmitigated	14.0618	0.0667	1.6400e-003	15.9709

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.03657 / 0	14.0618	0.0667	1.6400e-003	15.9709
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		14.0618	0.0667	1.6400e-003	15.9709

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.62926 / 0	10.8769	0.0534	1.3100e-003	12.4033
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		10.8769	0.0534	1.3100e-003	12.4033

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.2768	0.0755	0.0000	2.8614
Unmitigated	2.5536	0.1509	0.0000	5.7228

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	12.58	2.5536	0.1509	0.0000	5.7228
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		2.5536	0.1509	0.0000	5.7228

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	6.29	1.2768	0.0755	0.0000	2.8614
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1.2768	0.0755	0.0000	2.8614

9.0 Operational Offroad

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

Enclave Reduced Density Alternative
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	79.00	Space	0.00	0.00	0
Other Asphalt Surfaces	18.00	1000sqft	0.00	18,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	35.00	Dwelling Unit	0.72	54,563.00	91

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 50% density reduction alternative. Population is 2.6 res per unit

Construction Phase - Construction assumptions based on 50% density reduction

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating -

[illegible]

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	120.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	6.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.00
tblGrading	MaterialExported	0.00	18,500.00
tblLandUse	LandUseSquareFeet	31,600.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	35,000.00	54,563.00
tblLandUse	LotAcreage	0.71	0.00
tblLandUse	LotAcreage	0.41	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	0.92	0.72
tblLandUse	Population	100.00	91.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	32.66	12.58
tblSolidWaste	SolidWasteGenerationRate	4.33	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripNumber	2,818.00	0.00
tblTripsAndVMT	VendorTripNumber	8.00	9.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	53.00	54.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	4,625,935.82	2,036,571.00
tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2015	2.0834	18.2384	11.6291	0.0166	0.9452	1.3146	2.1855	0.4441	1.2094	1.6535	0.0000	1,647.968 3	1,647.968 3	0.3985	0.0000	1,656.336 5
2016	10.9744	17.3729	13.7321	0.0236	0.8709	1.2465	2.1174	0.4441	1.1468	1.5909	0.0000	2,191.540 5	2,191.540 5	0.3974	0.0000	2,199.886 2
Total	13.0577	35.6112	25.3612	0.0403	1.8161	2.5611	4.3029	0.8882	2.3562	3.2445	0.0000	3,839.508 7	3,839.508 7	0.7959	0.0000	3,856.222 7

Mitigated 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					
2015	0.3949	7.3677	9.9774	0.0166	0.4817	0.4255	0.9072	0.1913	0.4236	0.5947	0.0000	1,647.968 3	1,647.968 3	0.3985	0.0000	1,656.336 5
2016	10.6653	8.3204	13.3305	0.0236	0.6597	0.4653	1.1251	0.1913	0.4639	0.6399	0.0000	2,191.540 5	2,191.540 5	0.3974	0.0000	2,199.886 2
Total	11.0602	15.6880	23.3079	0.0403	1.1414	0.8908	2.0322	0.3826	0.8875	1.2346	0.0000	3,839.508 7	3,839.508 7	0.7959	0.0000	3,856.222 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	15.30	55.95	8.10	0.00	37.15	65.22	52.77	56.93	62.33	61.95	0.00	0.00	0.00	0.00	0.00	0.00

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	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Energy	7.8500e-003	0.0674	0.0303	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001
Mobile	0.9146	2.6589	10.9478	0.0257	1.6885	0.0392	1.7277	0.4515	0.0360	0.4875		2,262.4688	2,262.4688	0.0936		2,264.4347
Total	2.6121	2.7606	13.9160	0.0263	1.6885	0.0604	1.7489	0.4515	0.0573	0.5087	0.0000	2,353.3682	2,353.3682	0.1006	1.5700e-003	2,355.9681

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	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Energy	6.9500e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3900e-003	76.2643
Mobile	0.8556	2.2646	9.4524	0.0214	1.3990	0.0328	1.4318	0.3741	0.0301	0.4042		1,883.8010	1,883.8010	0.0788		1,885.4563
Total	2.5522	2.3585	12.4172	0.0219	1.3990	0.0534	1.4524	0.3741	0.0508	0.4248	0.0000	1,964.8248	1,964.8248	0.0856	1.3900e-003	1,967.0539

	ROG	NOx	CO	SO2	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	2.29	14.57	10.77	16.57	17.14	11.60	16.95	17.14	11.35	16.49	0.00	16.51	16.51	14.89	11.46	16.51

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	10/5/2016	5	180	
5	Paving	Paving	10/6/2016	10/19/2016	5	10	
6	Architectural Coating	Architectural Coating	10/20/2016	12/28/2016	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 110,490; Residential Outdoor: 36,830; Non-Residential Indoor: 6,542; Non-Residential Outdoor: 2,181 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.638 6	1,200.638 6	0.2451		1,205.786 1
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.638 6	1,200.638 6	0.2451		1,205.786 1

3.2 Demolition - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404		320.1875	320.1875	2.5800e-003		320.2416
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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711		447.3297	447.3297	9.8400e-003		447.5362

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					0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	0.2661	5.9808	7.9564	0.0120		0.4023	0.4023		0.4023	0.4023	0.0000	1,200.6386	1,200.6386	0.2451		1,205.7861
Total	0.2661	5.9808	7.9564	0.0120	0.2964	0.4023	0.6987	0.0449	0.4023	0.4472	0.0000	1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404		320.1875	320.1875	2.5800e-003		320.2416
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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711		447.3297	447.3297	9.8400e-003		447.5362

3.3 Site Preparation - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0667	10.7250	5.5547	7.0200e-003		0.6598	0.6598		0.6070	0.6070		738.4156	738.4156	0.2205		743.0450
Total	1.0667	10.7250	5.5547	7.0200e-003	0.0000	0.6598	0.6598	0.0000	0.6070	0.6070		738.4156	738.4156	0.2205		743.0450

3.3 Site Preparation - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1702	3.4901	5.2481	7.0200e-003		0.1968	0.1968		0.1968	0.1968	0.0000	738.4156	738.4156	0.2205		743.0450
Total	0.1702	3.4901	5.2481	7.0200e-003	0.0000	0.1968	0.1968	0.0000	0.1968	0.1968	0.0000	738.4156	738.4156	0.2205		743.0450

3.3 Site Preparation - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7591	0.0000	0.7591	0.4145	0.0000	0.4145			0.0000			0.0000
Off-Road	2.0341	18.1764	10.8645	0.0125		1.3135	1.3135		1.2084	1.2084		1,310.469 2	1,310.469 2	0.3912		1,318.685 0
Total	2.0341	18.1764	10.8645	0.0125	0.7591	1.3135	2.0726	0.4145	1.2084	1.6229		1,310.469 2	1,310.469 2	0.3912		1,318.685 0

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945

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					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024	0.0000	1,310.4692	1,310.4692	0.3912		1,318.6850
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.6984	0.1616	0.4024	0.5640	0.0000	1,310.4692	1,310.4692	0.3912		1,318.6850

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945

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					0.7591	0.0000	0.7591	0.4145	0.0000	0.4145			0.0000			0.0000
Off-Road	1.9454	17.3168	10.7280	0.0125		1.2455	1.2455		1.1459	1.1459		1,295.3598	1,295.3598	0.3907		1,303.5651
Total	1.9454	17.3168	10.7280	0.0125	0.7591	1.2455	2.0046	0.4145	1.1459	1.5603		1,295.3598	1,295.3598	0.3907		1,303.5651

3.4 Grading - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426
Total	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426

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					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024	0.0000	1,295.3598	1,295.3598	0.3907		1,303.5651
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.6984	0.1616	0.4024	0.5640	0.0000	1,295.3598	1,295.3598	0.3907		1,303.5651

3.4 Grading - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426
Total	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8272	13.6002	9.0711	0.0138		0.9001	0.9001		0.8598	0.8598		1,329.6705	1,329.6705	0.2907		1,335.7748
Total	1.8272	13.6002	9.0711	0.0138		0.9001	0.9001		0.8598	0.8598		1,329.6705	1,329.6705	0.2907		1,335.7748

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0758	0.7876	0.9150	1.9800e-003	0.0561	0.0123	0.0684	0.0160	0.0113	0.0273		198.1986	198.1986	1.4500e-003		198.2291
Worker	0.2405	0.3027	3.7460	7.8500e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653		663.6715	663.6715	0.0361		664.4302
Total	0.3163	1.0903	4.6610	9.8300e-003	0.6597	0.0180	0.6777	0.1761	0.0166	0.1926		861.8700	861.8700	0.0376		862.6593

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	0.3591	7.2301	8.6696	0.0138		0.4473	0.4473		0.4473	0.4473	0.0000	1,329.6704	1,329.6704	0.2907		1,335.7748
Total	0.3591	7.2301	8.6696	0.0138		0.4473	0.4473		0.4473	0.4473	0.0000	1,329.6704	1,329.6704	0.2907		1,335.7748

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0758	0.7876	0.9150	1.9800e-003	0.0561	0.0123	0.0684	0.0160	0.0113	0.0273		198.1986	198.1986	1.4500e-003		198.2291
Worker	0.2405	0.3027	3.7460	7.8500e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653		663.6715	663.6715	0.0361		664.4302
Total	0.3163	1.0903	4.6610	9.8300e-003	0.6597	0.0180	0.6777	0.1761	0.0166	0.1926		861.8700	861.8700	0.0376		862.6593

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9428	9.1717	5.9832	8.5900e-003		0.5940	0.5940		0.5474	0.5474		875.3305	875.3305	0.2565		880.7178
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9428	9.1717	5.9832	8.5900e-003		0.5940	0.5940		0.5474	0.5474		875.3305	875.3305	0.2565		880.7178

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426
Total	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426

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	0.1981	4.2306	6.1067	8.5900e-003		0.2613	0.2613		0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1981	4.2306	6.1067	8.5900e-003		0.2613	0.2613		0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178

3.6 Paving - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426
Total	0.0445	0.0561	0.6937	1.4500e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		122.9021	122.9021	6.6900e-003		123.0426

3.7 Architectural Coating - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.5569					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	10.9254	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

3.7 Architectural Coating - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		135.1923	135.1923	7.3600e-003		135.3469
Total	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		135.1923	135.1923	7.3600e-003		135.3469

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	10.5569					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	0.0332		282.1449
Total	10.6163	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		135.1923	135.1923	7.3600e-003		135.3469
Total	0.0490	0.0617	0.7631	1.6000e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		135.1923	135.1923	7.3600e-003		135.3469

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	0.8556	2.2646	9.4524	0.0214	1.3990	0.0328	1.4318	0.3741	0.0301	0.4042		1,883.8010	1,883.8010	0.0788		1,885,4563
Unmitigated	0.9146	2.6589	10.9478	0.0257	1.6885	0.0392	1.7277	0.4515	0.0360	0.4875		2,262.4688	2,262.4688	0.0936		2,264,4347

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	232.75	232.75	232.75	795,342	658,985
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	232.75	232.75	232.75	795,342	658,985

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.9500e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3900e-003	76.2643
NaturalGas Unmitigated	7.8500e-003	0.0674	0.0303	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	39.2176	4.2000e-004	3.8400e-003	3.2300e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6138	4.6138	9.0000e-005	8.0000e-005	4.6419
Other Asphalt Surfaces	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
Apartments Mid Rise	689.051	7.4300e-003	0.0635	0.0270	4.1000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003		81.0649	81.0649	1.5500e-003	1.4900e-003	81.5582
Total		7.8500e-003	0.0673	0.0303	4.3000e-004		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0.0347266	3.7000e-004	3.4000e-003	2.8600e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		4.0855	4.0855	8.0000e-005	7.0000e-005	4.1104
Other Asphalt Surfaces	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
Apartments Mid Rise	0.609599	6.5700e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7175	71.7175	1.3700e-003	1.3100e-003	72.1540
Total		6.9400e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3800e-003	76.2643

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	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Unmitigated	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

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	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0932	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158		5.2207	5.2207	5.3600e-003		5.3333
Total	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0932	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158		5.2207	5.2207	5.3600e-003		5.3333
Total	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

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

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

Enclave Reduced Density Alternative
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	79.00	Space	0.00	0.00	0
Other Asphalt Surfaces	18.00	1000sqft	0.00	18,000.00	0
Health Club	0.76	1000sqft	0.00	761.00	0
Apartments Mid Rise	35.00	Dwelling Unit	0.72	54,563.00	91

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 50% density reduction alternative. Population is 2.6 res per unit

Construction Phase - Construction assumptions based on 50% density reduction

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills. Changed #worker trips from 0 to 10

Demolition -

Grading - Per site plan

Vehicle Trips - Rates from Traffic Memo. Health club is for residents and would not generate additional trips to Project Site

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No woodstoves or fireplaces

Water And Wastewater - Indoor water use includes landscaping, fitness center. See Section 4.9 Utilities

Solid Waste - See Section 4.9, Utilities for calculation

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating -

[illegible]

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	120.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	6.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	60.35	0.00
tblFireplaces	NumberNoFireplace	7.10	0.00
tblFireplaces	NumberWood	3.55	0.00
tblGrading	AcresOfGrading	60.00	0.72
tblGrading	AcresOfGrading	2.25	0.00
tblGrading	MaterialExported	0.00	18,500.00
tblLandUse	LandUseSquareFeet	31,600.00	0.00
tblLandUse	LandUseSquareFeet	760.00	761.00
tblLandUse	LandUseSquareFeet	35,000.00	54,563.00
tblLandUse	LotAcreage	0.71	0.00
tblLandUse	LotAcreage	0.41	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	0.92	0.72
tblLandUse	Population	100.00	91.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.36	0.37

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	32.66	12.58
tblSolidWaste	SolidWasteGenerationRate	4.33	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripNumber	2,818.00	0.00
tblTripsAndVMT	VendorTripNumber	8.00	9.00

tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	53.00	54.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	4,625,935.82	2,036,571.00
tblWater	IndoorWaterUseRate	44,948.79	0.00
tblWater	OutdoorWaterUseRate	2,916,350.84	0.00
tblWater	OutdoorWaterUseRate	27,549.26	0.00
tblWoodstoves	NumberCatalytic	3.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2015	2.0855	18.2451	11.5849	0.0166	0.9452	1.3146	2.1855	0.4441	1.2094	1.6535	0.0000	1,640.209 7	1,640.209 7	0.3985	0.0000	1,648.577 9
2016	10.9763	17.3790	13.7026	0.0232	0.8709	1.2465	2.1174	0.4441	1.1468	1.5909	0.0000	2,152.640 1	2,152.640 1	0.3974	0.0000	2,160.985 9
Total	13.0618	35.6241	25.2875	0.0397	1.8161	2.5611	4.3029	0.8882	2.3562	3.2445	0.0000	3,792.849 8	3,792.849 8	0.7959	0.0000	3,809.563 8

Mitigated 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					
2015	0.4014	7.4219	9.9332	0.0166	0.4817	0.4255	0.9072	0.1913	0.4237	0.5947	0.0000	1,640.209 7	1,640.209 7	0.3985	0.0000	1,648.577 9
2016	10.6673	8.3731	13.3010	0.0232	0.6597	0.4655	1.1252	0.1913	0.4640	0.6401	0.0000	2,152.640 1	2,152.640 1	0.3974	0.0000	2,160.985 9
Total	11.0687	15.7950	23.2342	0.0397	1.1414	0.8910	2.0324	0.3826	0.8877	1.2347	0.0000	3,792.849 8	3,792.849 8	0.7959	0.0000	3,809.563 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	15.26	55.66	8.12	0.00	37.15	65.21	52.77	56.93	62.33	61.94	0.00	0.00	0.00	0.00	0.00	0.00

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	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Energy	7.8500e-003	0.0674	0.0303	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001
Mobile	0.9594	2.8053	10.8941	0.0245	1.6885	0.0393	1.7278	0.4515	0.0362	0.4876		2,163.0982	2,163.0982	0.0937		2,165.0654
Total	2.6569	2.9070	13.8624	0.0251	1.6885	0.0606	1.7491	0.4515	0.0574	0.5089	0.0000	2,253.9976	2,253.9976	0.1007	1.5700e-003	2,256.5988

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	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Energy	6.9500e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3900e-003	76.2643
Mobile	0.9018	2.3866	9.5227	0.0204	1.3990	0.0329	1.4319	0.3741	0.0303	0.4043		1,801.1026	1,801.1026	0.0789		1,802.7593
Total	2.5984	2.4806	12.4874	0.0210	1.3990	0.0536	1.4526	0.3741	0.0509	0.4250	0.0000	1,882.1264	1,882.1264	0.0857	1.3900e-003	1,884.3569

	ROG	NOx	CO	SO2	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	2.20	14.67	9.92	16.53	17.14	11.59	16.95	17.14	11.32	16.49	0.00	16.50	16.50	14.88	11.46	16.50

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	1/27/2016	5	120	
4	Building Construction	Building Construction	1/28/2016	10/5/2016	5	180	
5	Paving	Paving	10/6/2016	10/19/2016	5	10	
6	Architectural Coating	Architectural Coating	10/20/2016	12/28/2016	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 110,490; Residential Outdoor: 36,830; Non-Residential Indoor: 6,542; Non-Residential Outdoor: 2,181 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	6.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Excavators	1	6.00	162	0.38
Grading	Graders	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	7.00	97	0.37
Paving	Rollers	1	6.00	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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	54.00	9.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.638 6	1,200.638 6	0.2451		1,205.786 1
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.638 6	1,200.638 6	0.2451		1,205.786 1

3.2 Demolition - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405		319.5604	319.5604	2.6000e-003		319.6150
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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711		439.5711	439.5711	9.8600e-003		439.7782

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					0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	0.2661	5.9808	7.9564	0.0120		0.4023	0.4023		0.4023	0.4023	0.0000	1,200.6386	1,200.6386	0.2451		1,205.7861
Total	0.2661	5.9808	7.9564	0.0120	0.2964	0.4023	0.6987	0.0449	0.4023	0.4472	0.0000	1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405		319.5604	319.5604	2.6000e-003		319.6150
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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711		439.5711	439.5711	9.8600e-003		439.7782

3.3 Site Preparation - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0667	10.7250	5.5547	7.0200e-003		0.6598	0.6598		0.6070	0.6070		738.4156	738.4156	0.2205		743.0450
Total	1.0667	10.7250	5.5547	7.0200e-003	0.0000	0.6598	0.6598	0.0000	0.6070	0.6070		738.4156	738.4156	0.2205		743.0450

3.3 Site Preparation - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1702	3.4901	5.2481	7.0200e-003		0.1968	0.1968		0.1968	0.1968	0.0000	738.4156	738.4156	0.2205		743.0450
Total	0.1702	3.4901	5.2481	7.0200e-003	0.0000	0.1968	0.1968	0.0000	0.1968	0.1968	0.0000	738.4156	738.4156	0.2205		743.0450

3.3 Site Preparation - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7591	0.0000	0.7591	0.4145	0.0000	0.4145			0.0000			0.0000
Off-Road	2.0341	18.1764	10.8645	0.0125		1.3135	1.3135		1.2084	1.2084		1,310.469 2	1,310.469 2	0.3912		1,318.685 0
Total	2.0341	18.1764	10.8645	0.0125	0.7591	1.3135	2.0726	0.4145	1.2084	1.6229		1,310.469 2	1,310.469 2	0.3912		1,318.685 0

3.4 Grading - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631

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					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024	0.0000	1,310.4692	1,310.4692	0.3912		1,318.6850
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.6984	0.1616	0.4024	0.5640	0.0000	1,310.4692	1,310.4692	0.3912		1,318.6850

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631

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					0.7591	0.0000	0.7591	0.4145	0.0000	0.4145			0.0000			0.0000
Off-Road	1.9454	17.3168	10.7280	0.0125		1.2455	1.2455		1.1459	1.1459		1,295.3598	1,295.3598	0.3907		1,303.5651
Total	1.9454	17.3168	10.7280	0.0125	0.7591	1.2455	2.0046	0.4145	1.1459	1.5603		1,295.3598	1,295.3598	0.3907		1,303.5651

3.4 Grading - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436
Total	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436

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					0.2961	0.0000	0.2961	0.1616	0.0000	0.1616			0.0000			0.0000
Off-Road	0.3068	6.5692	9.2128	0.0125		0.4024	0.4024		0.4024	0.4024	0.0000	1,295.3598	1,295.3598	0.3907		1,303.5651
Total	0.3068	6.5692	9.2128	0.0125	0.2961	0.4024	0.6984	0.1616	0.4024	0.5640	0.0000	1,295.3598	1,295.3598	0.3907		1,303.5651

3.4 Grading - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436
Total	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8272	13.6002	9.0711	0.0138		0.9001	0.9001		0.8598	0.8598		1,329.6705	1,329.6705	0.2907		1,335.7748
Total	1.8272	13.6002	9.0711	0.0138		0.9001	0.9001		0.8598	0.8598		1,329.6705	1,329.6705	0.2907		1,335.7748

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0837	0.8074	1.1140	1.9600e-003	0.0561	0.0124	0.0686	0.0160	0.0114	0.0274		196.5529	196.5529	1.5000e-003		196.5843
Worker	0.2502	0.3357	3.5174	7.4100e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653		626.4168	626.4168	0.0361		627.1755
Total	0.3339	1.1430	4.6315	9.3700e-003	0.6597	0.0182	0.6779	0.1761	0.0167	0.1927		822.9697	822.9697	0.0376		823.7598

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	0.3591	7.2301	8.6696	0.0138		0.4473	0.4473		0.4473	0.4473	0.0000	1,329.6704	1,329.6704	0.2907		1,335.7748
Total	0.3591	7.2301	8.6696	0.0138		0.4473	0.4473		0.4473	0.4473	0.0000	1,329.6704	1,329.6704	0.2907		1,335.7748

3.5 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0837	0.8074	1.1140	1.9600e-003	0.0561	0.0124	0.0686	0.0160	0.0114	0.0274		196.5529	196.5529	1.5000e-003		196.5843
Worker	0.2502	0.3357	3.5174	7.4100e-003	0.6036	5.7100e-003	0.6093	0.1601	5.2500e-003	0.1653		626.4168	626.4168	0.0361		627.1755
Total	0.3339	1.1430	4.6315	9.3700e-003	0.6597	0.0182	0.6779	0.1761	0.0167	0.1927		822.9697	822.9697	0.0376		823.7598

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9428	9.1717	5.9832	8.5900e-003		0.5940	0.5940		0.5474	0.5474		875.3305	875.3305	0.2565		880.7178
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9428	9.1717	5.9832	8.5900e-003		0.5940	0.5940		0.5474	0.5474		875.3305	875.3305	0.2565		880.7178

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436
Total	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436

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	0.1981	4.2306	6.1067	8.5900e-003		0.2613	0.2613		0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1981	4.2306	6.1067	8.5900e-003		0.2613	0.2613		0.2613	0.2613	0.0000	875.3305	875.3305	0.2565		880.7178

3.6 Paving - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436
Total	0.0463	0.0622	0.6514	1.3700e-003	0.1118	1.0600e-003	0.1128	0.0296	9.7000e-004	0.0306		116.0031	116.0031	6.6900e-003		116.1436

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.5569					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	10.9254	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

3.7 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		127.6034	127.6034	7.3600e-003		127.7580
Total	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		127.6034	127.6034	7.3600e-003		127.7580

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	10.5569					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	0.0332		282.1449
Total	10.6163	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332		282.1449

3.7 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		127.6034	127.6034	7.3600e-003		127.7580
Total	0.0510	0.0684	0.7165	1.5100e-003	0.1230	1.1600e-003	0.1241	0.0326	1.0700e-003	0.0337		127.6034	127.6034	7.3600e-003		127.7580

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	0.9018	2.3866	9.5227	0.0204	1.3990	0.0329	1.4319	0.3741	0.0303	0.4043		1,801.1026	1,801.1026	0.0789		1,802.7593
Unmitigated	0.9594	2.8053	10.8941	0.0245	1.6885	0.0393	1.7278	0.4515	0.0362	0.4876		2,163.0982	2,163.0982	0.0937		2,165.0654

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	232.75	232.75	232.75	795,342	658,985
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	232.75	232.75	232.75	795,342	658,985

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.9500e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3900e-003	76.2643
NaturalGas Unmitigated	7.8500e-003	0.0674	0.0303	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001

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					
Apartments Mid Rise	689.051	7.4300e-003	0.0635	0.0270	4.1000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003		81.0649	81.0649	1.5500e-003	1.4900e-003	81.5582
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	39.2176	4.2000e-004	3.8400e-003	3.2300e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6138	4.6138	9.0000e-005	8.0000e-005	4.6419
Other Asphalt Surfaces	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		7.8500e-003	0.0673	0.0303	4.3000e-004		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003		85.6787	85.6787	1.6400e-003	1.5700e-003	86.2001

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	0.0347266	3.7000e-004	3.4000e-003	2.8600e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		4.0855	4.0855	8.0000e-005	7.0000e-005	4.1104
Other Asphalt Surfaces	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
Apartments Mid Rise	0.609599	6.5700e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7175	71.7175	1.3700e-003	1.3100e-003	72.1540
Total		6.9400e-003	0.0596	0.0268	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003		75.8030	75.8030	1.4500e-003	1.3800e-003	76.2643

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	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333
Unmitigated	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

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	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0932	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158		5.2207	5.2207	5.3600e-003		5.3333
Total	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1446					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0932	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158		5.2207	5.2207	5.3600e-003		5.3333
Total	1.6896	0.0344	2.9380	1.5000e-004		0.0158	0.0158		0.0158	0.0158	0.0000	5.2207	5.2207	5.3600e-003	0.0000	5.3333

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

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

Enclave Nonresidential Alternative
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	308.00	Space	0.00	0.00	0
Other Asphalt Surfaces	72.00	1000sqft	0.00	72,000.00	0
Medical Office Building	40.00	1000sqft	0.36	40,000.00	0
General Office Building	40.00	1000sqft	0.36	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per nonresidential alternative description

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills.

Demolition -

Grading - Per site plan

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Water And Wastewater - Indoor water use includes general and medical office buildings, all outdoor/landscaping, fitness center. See Utilities section of Alternatives

Solid Waste - See Utilities section of Alternatives. Solid waste calculation includes general and medical office

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	NumDays	5.00	66.00

tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	143.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	1.00	6.00
tblGrading	AcresOfGrading	0.00	0.72
tblGrading	AcresOfGrading	3.00	0.72
tblGrading	MaterialExported	0.00	50,000.00
tblLandUse	LandUseSquareFeet	123,200.00	0.00
tblLandUse	LotAcreage	2.77	0.00
tblLandUse	LotAcreage	1.65	0.00
tblLandUse	LotAcreage	0.92	0.36
tblLandUse	LotAcreage	0.92	0.36
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	37.20	56.00
tblSolidWaste	SolidWasteGenerationRate	432.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00

tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblWater	IndoorWaterUseRate	7,109,349.92	7,299,072.00
tblWater	IndoorWaterUseRate	5,019,221.50	0.00
tblWater	OutdoorWaterUseRate	4,357,343.50	0.00
tblWater	OutdoorWaterUseRate	956,042.19	0.00

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					
2015	0.1656	1.8784	1.3502	3.1100e-003	0.1361	0.0811	0.2171	0.0500	0.0765	0.1265	0.0000	284.8116	284.8116	0.0225	0.0000	285.2848
2016	0.4377	2.8916	2.6995	4.8000e-003	0.1971	0.1659	0.3629	0.0671	0.1591	0.2262	0.0000	409.7684	409.7684	0.0531	0.0000	410.8828
2017	1.8298	0.4397	0.4380	7.4000e-004	0.0167	0.0281	0.0448	4.4700e-003	0.0271	0.0315	0.0000	61.2643	61.2643	9.0900e-003	0.0000	61.4552
Total	2.4331	5.2097	4.4877	8.6500e-003	0.3498	0.2750	0.6248	0.1215	0.2627	0.3843	0.0000	755.8443	755.8443	0.0847	0.0000	757.6228

Mitigated 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					
2015	0.0832	1.4099	1.3181	3.1100e-003	0.0953	0.0471	0.1424	0.0308	0.0456	0.0764	0.0000	284.8115	284.8115	0.0225	0.0000	285.2847
2016	0.1493	2.0197	2.5452	4.8000e-003	0.1623	0.0968	0.2591	0.0487	0.0957	0.1444	0.0000	409.7681	409.7681	0.0531	0.0000	410.8826
2017	1.7830	0.2939	0.4209	7.4000e-004	0.0167	0.0168	0.0335	4.4700e-003	0.0167	0.0212	0.0000	61.2643	61.2643	9.0900e-003	0.0000	61.4551
Total	2.0155	3.7234	4.2841	8.6500e-003	0.2742	0.1607	0.4349	0.0840	0.1580	0.2420	0.0000	755.8439	755.8439	0.0847	0.0000	757.6224

	ROG	NOx	CO	SO2	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	17.17	28.53	4.54	0.00	21.61	41.57	30.39	30.90	39.86	37.03	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Energy	4.7100e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	634.7255	634.7255	0.0162	4.0200e-003	636.3113
Mobile	0.8690	2.4709	9.6008	0.0224	1.4814	0.0335	1.5149	0.3968	0.0309	0.4276	0.0000	1,736.876 2	1,736.876 2	0.0718	0.0000	1,738.382 9
Waste						0.0000	0.0000		0.0000	0.0000	11.3675	0.0000	11.3675	0.6718	0.0000	25.4753
Water						0.0000	0.0000		0.0000	0.0000	2.3157	48.0818	50.3975	0.2391	5.8700e-003	57.2395
Total	1.5996	2.5138	9.6428	0.0227	1.4814	0.0368	1.5182	0.3968	0.0342	0.4309	13.6832	2,419.695 0	2,433.378 1	0.9989	9.8900e-003	2,457.421 1

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Energy	4.0300e-003	0.0367	0.0308	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	593.8578	593.8578	0.0152	3.7100e-003	595.3270
Mobile	0.8247	2.1337	8.5166	0.0189	1.2412	0.0285	1.2696	0.3324	0.0262	0.3586	0.0000	1,463.748 1	1,463.748 1	0.0612	0.0000	1,465.033 5
Waste						0.0000	0.0000		0.0000	0.0000	5.6838	0.0000	5.6838	0.3359	0.0000	12.7376
Water						0.0000	0.0000		0.0000	0.0000	1.8525	37.1304	38.9829	0.1912	4.6900e-003	44.4536
Total	1.5547	2.1704	8.5534	0.0191	1.2412	0.0313	1.2724	0.3324	0.0290	0.3614	7.5363	2,094.747 8	2,102.284 0	0.6036	8.4000e-003	2,117.563 7

	ROG	NOx	CO	SO2	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	2.81	13.66	11.30	15.71	16.21	15.10	16.19	16.21	15.11	16.13	44.92	13.43	13.61	39.58	15.07	13.83

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	2/29/2016	5	143	
4	Building Construction	Building Construction	3/1/2016	2/13/2017	5	250	
5	Paving	Paving	2/14/2017	2/28/2017	5	11	
6	Architectural Coating	Architectural Coating	3/1/2017	5/31/2017	5	66	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 228,000; Non-Residential Outdoor: 76,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Excavators	1	6.00	162	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Building Construction	Welders	3	8.00	46	0.45
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,250.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	56.00	25.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.5000e-003	0.0000	9.5000e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0177	0.1493	0.1102	1.5000e-004		0.0109	0.0109		0.0105	0.0105	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	0.0177	0.1493	0.1102	1.5000e-004	9.5000e-003	0.0109	0.0204	1.4400e-003	0.0105	0.0119	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734

3.2 Demolition - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
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	6.1000e-004	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7000e-003	0.0000	3.7000e-003	5.6000e-004	0.0000	5.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1300e-003	0.0795	0.0997	1.5000e-004		5.4400e-003	5.4400e-003		5.3800e-003	5.3800e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734
Total	4.1300e-003	0.0795	0.0997	1.5000e-004	3.7000e-003	5.4400e-003	9.1400e-003	5.6000e-004	5.3800e-003	5.9400e-003	0.0000	13.6150	13.6150	2.7800e-003	0.0000	13.6734

3.2 Demolition - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0300e-003	0.0175	0.0114	4.0000e-005	9.0000e-004	2.8000e-004	1.1800e-003	2.5000e-004	2.5000e-004	5.0000e-004	0.0000	3.6279	3.6279	3.0000e-005	0.0000	3.6285
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	6.1000e-004	8.8000e-004	9.1900e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.8000e-004	0.0000	1.3828	1.3828	8.0000e-005	0.0000	1.3845
Total	1.6400e-003	0.0183	0.0206	6.0000e-005	2.2700e-003	2.9000e-004	2.5600e-003	6.1000e-004	2.6000e-004	8.8000e-004	0.0000	5.0106	5.0106	1.1000e-004	0.0000	5.0130

3.3 Site Preparation - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2700e-003	0.0429	0.0222	3.0000e-005		2.6400e-003	2.6400e-003		2.4300e-003	2.4300e-003	0.0000	2.6795	2.6795	8.0000e-004	0.0000	2.6963
Total	4.2700e-003	0.0429	0.0222	3.0000e-005	3.8000e-004	2.6400e-003	3.0200e-003	4.0000e-005	2.4300e-003	2.4700e-003	0.0000	2.6795	2.6795	8.0000e-004	0.0000	2.6963

3.3 Site Preparation - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	1.1000e-004	1.1000e-003	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1659	0.1659	1.0000e-005	0.0000	0.1661
Total	7.0000e-005	1.1000e-004	1.1000e-003	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1659	0.1659	1.0000e-005	0.0000	0.1661

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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1000e-004	0.0147	0.0210	3.0000e-005		8.5000e-004	8.5000e-004		8.4000e-004	8.4000e-004	0.0000	2.6795	2.6795	8.0000e-004	0.0000	2.6963
Total	8.1000e-004	0.0147	0.0210	3.0000e-005	1.5000e-004	8.5000e-004	1.0000e-003	2.0000e-005	8.4000e-004	8.6000e-004	0.0000	2.6795	2.6795	8.0000e-004	0.0000	2.6963

3.3 Site Preparation - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	1.1000e-004	1.1000e-003	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1659	0.1659	1.0000e-005	0.0000	0.1661
Total	7.0000e-005	1.1000e-004	1.1000e-003	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.1659	0.1659	1.0000e-005	0.0000	0.1661

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0570	0.0000	0.0570	0.0301	0.0000	0.0301	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0871	0.7873	0.5754	8.1000e-004		0.0533	0.0533		0.0506	0.0506	0.0000	74.0933	74.0933	0.0169	0.0000	74.4488
Total	0.0871	0.7873	0.5754	8.1000e-004	0.0570	0.0533	0.1103	0.0301	0.0506	0.0806	0.0000	74.0933	74.0933	0.0169	0.0000	74.4488

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0517	0.8758	0.5725	1.9700e-003	0.0596	0.0138	0.0734	0.0159	0.0127	0.0287	0.0000	181.9849	181.9849	1.4700e-003	0.0000	182.0158
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1800e-003	4.6300e-003	0.0483	9.0000e-005	7.1900e-003	7.0000e-005	7.2700e-003	1.9100e-003	7.0000e-005	1.9800e-003	0.0000	7.2622	7.2622	4.3000e-004	0.0000	7.2713
Total	0.0549	0.8805	0.6208	2.0600e-003	0.0667	0.0139	0.0807	0.0178	0.0128	0.0306	0.0000	189.2472	189.2472	1.9000e-003	0.0000	189.2872

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					0.0222	0.0000	0.0222	0.0117	0.0000	0.0117	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0216	0.4167	0.5549	8.1000e-004		0.0266	0.0266		0.0264	0.0264	0.0000	74.0932	74.0932	0.0169	0.0000	74.4487
Total	0.0216	0.4167	0.5549	8.1000e-004	0.0222	0.0266	0.0488	0.0117	0.0264	0.0381	0.0000	74.0932	74.0932	0.0169	0.0000	74.4487

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0517	0.8758	0.5725	1.9700e-003	0.0596	0.0138	0.0734	0.0159	0.0127	0.0287	0.0000	181.9849	181.9849	1.4700e-003	0.0000	182.0158
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1800e-003	4.6300e-003	0.0483	9.0000e-005	7.1900e-003	7.0000e-005	7.2700e-003	1.9100e-003	7.0000e-005	1.9800e-003	0.0000	7.2622	7.2622	4.3000e-004	0.0000	7.2713
Total	0.0549	0.8805	0.6208	2.0600e-003	0.0667	0.0139	0.0807	0.0178	0.0128	0.0306	0.0000	189.2472	189.2472	1.9000e-003	0.0000	189.2872

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					0.0570	0.0000	0.0570	0.0301	0.0000	0.0301	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0337	0.3058	0.2368	3.4000e-004		0.0203	0.0203		0.0193	0.0193	0.0000	30.5967	30.5967	6.9200e-003	0.0000	30.7419
Total	0.0337	0.3058	0.2368	3.4000e-004	0.0570	0.0203	0.0774	0.0301	0.0193	0.0493	0.0000	30.5967	30.5967	6.9200e-003	0.0000	30.7419

3.4 Grading - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0189	0.3215	0.2207	8.2000e-004	0.0531	4.5700e-003	0.0576	0.0136	4.2000e-003	0.0178	0.0000	74.8414	74.8414	5.5000e-004	0.0000	74.8530
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	1.1900e-003	1.7400e-003	0.0182	4.0000e-005	2.9900e-003	3.0000e-005	3.0200e-003	7.9000e-004	3.0000e-005	8.2000e-004	0.0000	2.9191	2.9191	1.7000e-004	0.0000	2.9226
Total	0.0201	0.3233	0.2389	8.6000e-004	0.0561	4.6000e-003	0.0607	0.0144	4.2300e-003	0.0186	0.0000	77.7606	77.7606	7.2000e-004	0.0000	77.7756

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					0.0222	0.0000	0.0222	0.0117	0.0000	0.0117	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8900e-003	0.1725	0.2307	3.4000e-004		0.0110	0.0110		0.0109	0.0109	0.0000	30.5966	30.5966	6.9200e-003	0.0000	30.7419
Total	8.8900e-003	0.1725	0.2307	3.4000e-004	0.0222	0.0110	0.0332	0.0117	0.0109	0.0226	0.0000	30.5966	30.5966	6.9200e-003	0.0000	30.7419

3.4 Grading - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0189	0.3215	0.2207	8.2000e-004	0.0531	4.5700e-003	0.0576	0.0136	4.2000e-003	0.0178	0.0000	74.8414	74.8414	5.5000e-004	0.0000	74.8530
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	1.1900e-003	1.7400e-003	0.0182	4.0000e-005	2.9900e-003	3.0000e-005	3.0200e-003	7.9000e-004	3.0000e-005	8.2000e-004	0.0000	2.9191	2.9191	1.7000e-004	0.0000	2.9226
Total	0.0201	0.3233	0.2389	8.6000e-004	0.0561	4.6000e-003	0.0607	0.0144	4.2300e-003	0.0186	0.0000	77.7606	77.7606	7.2000e-004	0.0000	77.7756

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3325	1.9730	1.4907	2.1500e-003		0.1365	0.1365		0.1316	0.1316	0.0000	181.3437	181.3437	0.0413	0.0000	182.2112
Total	0.3325	1.9730	1.4907	2.1500e-003		0.1365	0.1365		0.1316	0.1316	0.0000	181.3437	181.3437	0.0413	0.0000	182.2112

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0246	0.2505	0.3253	6.0000e-004	0.0168	3.7600e-003	0.0206	4.7900e-003	3.4600e-003	8.2500e-003	0.0000	54.4993	54.4993	4.1000e-004	0.0000	54.5078
Worker	0.0268	0.0391	0.4079	8.5000e-004	0.0672	6.5000e-004	0.0678	0.0179	6.0000e-004	0.0184	0.0000	65.5682	65.5682	3.7200e-003	0.0000	65.6464
Total	0.0514	0.2896	0.7332	1.4500e-003	0.0840	4.4100e-003	0.0884	0.0226	4.0600e-003	0.0267	0.0000	120.0675	120.0675	4.1300e-003	0.0000	120.1542

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	0.0689	1.2343	1.3424	2.1500e-003		0.0768	0.0768		0.0765	0.0765	0.0000	181.3435	181.3435	0.0413	0.0000	182.2110
Total	0.0689	1.2343	1.3424	2.1500e-003		0.0768	0.0768		0.0765	0.0765	0.0000	181.3435	181.3435	0.0413	0.0000	182.2110

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0246	0.2505	0.3253	6.0000e-004	0.0168	3.7600e-003	0.0206	4.7900e-003	3.4600e-003	8.2500e-003	0.0000	54.4993	54.4993	4.1000e-004	0.0000	54.5078
Worker	0.0268	0.0391	0.4079	8.5000e-004	0.0672	6.5000e-004	0.0678	0.0179	6.0000e-004	0.0184	0.0000	65.5682	65.5682	3.7200e-003	0.0000	65.6464
Total	0.0514	0.2896	0.7332	1.4500e-003	0.0840	4.4100e-003	0.0884	0.0226	4.0600e-003	0.0267	0.0000	120.0675	120.0675	4.1300e-003	0.0000	120.1542

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	0.0423	0.2609	0.2058	3.0000e-004		0.0174	0.0174		0.0168	0.0168	0.0000	25.5043	25.5043	5.5500e-003	0.0000	25.6207
Total	0.0423	0.2609	0.2058	3.0000e-004		0.0174	0.0174		0.0168	0.0168	0.0000	25.5043	25.5043	5.5500e-003	0.0000	25.6207

3.5 Building Construction - 2017**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	3.1800e-003	0.0323	0.0436	8.0000e-005	2.3800e-003	4.7000e-004	2.8500e-003	6.8000e-004	4.4000e-004	1.1100e-003	0.0000	7.5913	7.5913	6.0000e-005	0.0000	7.5924
Worker	3.4000e-003	5.0100e-003	0.0522	1.2000e-004	9.5100e-003	9.0000e-005	9.6000e-003	2.5300e-003	8.0000e-005	2.6100e-003	0.0000	8.9335	8.9335	4.9000e-004	0.0000	8.9438
Total	6.5800e-003	0.0373	0.0957	2.0000e-004	0.0119	5.6000e-004	0.0125	3.2100e-003	5.2000e-004	3.7200e-003	0.0000	16.5248	16.5248	5.5000e-004	0.0000	16.5362

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	9.7000e-003	0.1742	0.1900	3.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	25.5043	25.5043	5.5500e-003	0.0000	25.6207
Total	9.7000e-003	0.1742	0.1900	3.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	25.5043	25.5043	5.5500e-003	0.0000	25.6207

3.5 Building Construction - 2017

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	3.1800e-003	0.0323	0.0436	8.0000e-005	2.3800e-003	4.7000e-004	2.8500e-003	6.8000e-004	4.4000e-004	1.1100e-003	0.0000	7.5913	7.5913	6.0000e-005	0.0000	7.5924
Worker	3.4000e-003	5.0100e-003	0.0522	1.2000e-004	9.5100e-003	9.0000e-005	9.6000e-003	2.5300e-003	8.0000e-005	2.6100e-003	0.0000	8.9335	8.9335	4.9000e-004	0.0000	8.9438
Total	6.5800e-003	0.0373	0.0957	2.0000e-004	0.0119	5.6000e-004	0.0125	3.2100e-003	5.2000e-004	3.7200e-003	0.0000	16.5248	16.5248	5.5000e-004	0.0000	16.5362

3.6 Paving - 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	6.9500e-003	0.0669	0.0487	7.0000e-005		4.3800e-003	4.3800e-003		4.0400e-003	4.0400e-003	0.0000	6.3376	6.3376	1.8700e-003	0.0000	6.3768
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.9500e-003	0.0669	0.0487	7.0000e-005		4.3800e-003	4.3800e-003		4.0400e-003	4.0400e-003	0.0000	6.3376	6.3376	1.8700e-003	0.0000	6.3768

3.6 Paving - 2017

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	4.1000e-004	4.3000e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7359	0.7359	4.0000e-005	0.0000	0.7367
Total	2.8000e-004	4.1000e-004	4.3000e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7359	0.7359	4.0000e-005	0.0000	0.7367

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	1.7500e-003	0.0351	0.0486	7.0000e-005		2.2400e-003	2.2400e-003		2.2300e-003	2.2300e-003	0.0000	6.3376	6.3376	1.8700e-003	0.0000	6.3768
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.7500e-003	0.0351	0.0486	7.0000e-005		2.2400e-003	2.2400e-003		2.2300e-003	2.2300e-003	0.0000	6.3376	6.3376	1.8700e-003	0.0000	6.3768

3.6 Paving - 2017

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	4.1000e-004	4.3000e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7359	0.7359	4.0000e-005	0.0000	0.7367
Total	2.8000e-004	4.1000e-004	4.3000e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7359	0.7359	4.0000e-005	0.0000	0.7367

3.7 Architectural Coating - 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					
Archit. Coating	1.7613					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0721	0.0617	1.0000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003	0.0000	8.4257	8.4257	8.9000e-004	0.0000	8.4444
Total	1.7723	0.0721	0.0617	1.0000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003	0.0000	8.4257	8.4257	8.9000e-004	0.0000	8.4444

3.7 Architectural Coating - 2017**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	1.4200e-003	2.1000e-003	0.0218	5.0000e-005	3.9800e-003	4.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.7360	3.7360	2.0000e-004	0.0000	3.7403
Total	1.4200e-003	2.1000e-003	0.0218	5.0000e-005	3.9800e-003	4.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.7360	3.7360	2.0000e-004	0.0000	3.7403

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	1.7613					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0448	0.0605	1.0000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	8.9000e-004	0.0000	8.4444
Total	1.7633	0.0448	0.0605	1.0000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	8.4257	8.4257	8.9000e-004	0.0000	8.4444

3.7 Architectural Coating - 2017

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	1.4200e-003	2.1000e-003	0.0218	5.0000e-005	3.9800e-003	4.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.7360	3.7360	2.0000e-004	0.0000	3.7403
Total	1.4200e-003	2.1000e-003	0.0218	5.0000e-005	3.9800e-003	4.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.7360	3.7360	2.0000e-004	0.0000	3.7403

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8247	2.1337	8.5166	0.0189	1.2412	0.0285	1.2696	0.3324	0.0262	0.3586	0.0000	1,463.748 1	1,463.748 1	0.0612	0.0000	1,465,033 5
Unmitigated	0.8690	2.4709	9.6008	0.0224	1.4814	0.0335	1.5149	0.3968	0.0309	0.4276	0.0000	1,736.876 2	1,736.876 2	0.0718	0.0000	1,738,382 9

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	440.40	94.80	39.20	1,075,048	900,739
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	1,445.20	358.40	62.00	2,833,383	2,373,978
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,885.60	453.20	101.20	3,908,430	3,274,717

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	553.9459	553.9459	0.0144	2.9800e-003	555.1722
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	588.0642	588.0642	0.0153	3.1600e-003	589.3660
NaturalGas Mitigated	4.0300e-003	0.0367	0.0308	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9119	39.9119	7.6000e-004	7.3000e-004	40.1548
NaturalGas Unmitigated	4.7100e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6613	46.6613	8.9000e-004	8.6000e-004	46.9453

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	437200	2.3600e-003	0.0214	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	23.3307	23.3307	4.5000e-004	4.3000e-004	23.4726
Medical Office Building	437200	2.3600e-003	0.0214	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	23.3307	23.3307	4.5000e-004	4.3000e-004	23.4726
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.7200e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6613	46.6613	9.0000e-004	8.6000e-004	46.9453

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					
General Office Building	373960	2.0200e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9559	19.9559	3.8000e-004	3.7000e-004	20.0774
Medical Office Building	373960	2.0200e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9559	19.9559	3.8000e-004	3.7000e-004	20.0774
Other Asphalt Surfaces	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.0400e-003	0.0367	0.0308	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	39.9119	39.9119	7.6000e-004	7.4000e-004	40.1548

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	581200	294.0321	7.6500e-003	1.5800e-003	294.6830
Medical Office Building	581200	294.0321	7.6500e-003	1.5800e-003	294.6830
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		588.0642	0.0153	3.1600e-003	589.3660

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	547480	276.9730	7.2000e-003	1.4900e-003	277.5861
Medical Office Building	547480	276.9730	7.2000e-003	1.4900e-003	277.5861
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		553.9459	0.0144	2.9800e-003	555.1722

6.0 Area Detail

6.1 Mitigation Measures Area

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	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Unmitigated	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121

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	0.1761					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Total	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1761					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121
Total	0.7260	6.0000e-005	5.9800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0121

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	38.9829	0.1912	4.6900e-003	44.4536
Unmitigated	50.3975	0.2391	5.8700e-003	57.2395

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	7.29907 / 0	50.3975	0.2391	5.8700e-003	57.2395
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.3975	0.2391	5.8700e-003	57.2395

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.83926 / 0	38.9829	0.1912	4.6900e-003	44.4536
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		38.9829	0.1912	4.6900e-003	44.4536

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.6838	0.3359	0.0000	12.7376
Unmitigated	11.3675	0.6718	0.0000	25.4753

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	56	11.3675	0.6718	0.0000	25.4753
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		11.3675	0.6718	0.0000	25.4753

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	28	5.6838	0.3359	0.0000	12.7376
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		5.6838	0.3359	0.0000	12.7376

9.0 Operational Offroad

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

Enclave Nonresidential Alternative
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	308.00	Space	0.00	0.00	0
Other Asphalt Surfaces	72.00	1000sqft	0.00	72,000.00	0
Medical Office Building	40.00	1000sqft	0.36	40,000.00	0
General Office Building	40.00	1000sqft	0.36	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per nonresidential alternative description

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills.

Demolition -

Grading - Per site plan

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Water And Wastewater - Indoor water use includes general and medical office buildings, all outdoor/landscaping, fitness center. See Utilities section of Alternatives

Solid Waste - See Utilities section of Alternatives. Solid waste calculation includes general and medical office

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	NumDays	5.00	66.00

tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	2.00	143.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	1.00	6.00
tblGrading	AcresOfGrading	0.00	0.72
tblGrading	AcresOfGrading	3.00	0.72
tblGrading	MaterialExported	0.00	50,000.00
tblLandUse	LandUseSquareFeet	123,200.00	0.00
tblLandUse	LotAcreage	2.77	0.00
tblLandUse	LotAcreage	1.65	0.00
tblLandUse	LotAcreage	0.92	0.36
tblLandUse	LotAcreage	0.92	0.36
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	37.20	56.00
tblSolidWaste	SolidWasteGenerationRate	432.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00

tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblWater	IndoorWaterUseRate	7,109,349.92	7,299,072.00
tblWater	IndoorWaterUseRate	5,019,221.50	0.00
tblWater	OutdoorWaterUseRate	4,357,343.50	0.00
tblWater	OutdoorWaterUseRate	956,042.19	0.00

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					
2015	2.7760	32.1209	22.6415	0.0569	2.1443	1.3300	3.4743	0.7796	1.2546	2.0342	0.0000	5,758.217 7	5,758.217 7	0.4109	0.0000	5,766.847 2
2016	3.4969	29.1589	21.6049	0.0569	3.5236	1.2869	4.7096	1.1182	1.2384	2.2371	0.0000	5,697.567 9	5,697.567 9	0.4574	0.0000	5,707.172 5
2017	53.7491	19.1088	19.1831	0.0333	0.7819	1.1582	1.9401	0.2104	1.1142	1.3246	0.0000	3,018.039 4	3,018.039 4	0.4329	0.0000	3,027.131 0
Total	60.0220	80.3886	63.4294	0.1471	6.4498	3.7751	10.1240	2.1082	3.6072	5.5959	0.0000	14,473.82 49	14,473.82 49	1.3012	0.0000	14,501.15 07

Mitigated 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					
2015	1.4794	24.7833	22.2363	0.0569	1.6577	0.8017	2.4595	0.5232	0.7749	1.2980	0.0000	5,758.217 7	5,758.217 7	0.4109	0.0000	5,766.847 2
2016	1.3519	22.8095	21.3140	0.0569	3.0370	0.7416	3.7782	0.8618	0.7354	1.5809	0.0000	5,697.567 9	5,697.567 9	0.4574	0.0000	5,707.172 5
2017	53.4762	13.5191	18.1626	0.0333	0.7819	0.7344	1.5163	0.2104	0.7288	0.9391	0.0000	3,018.039 4	3,018.039 4	0.4329	0.0000	3,027.131 0
Total	56.3075	61.1118	61.7129	0.1471	5.4767	2.2778	7.7540	1.5954	2.2390	3.8181	0.0000	14,473.82 49	14,473.82 49	1.3012	0.0000	14,501.15 07

	ROG	NOx	CO	SO2	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	6.19	23.98	2.71	0.00	15.09	39.66	23.41	24.33	37.93	31.77	0.00	0.00	0.00	0.00	0.00	0.00

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	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Energy	0.0258	0.2349	0.1973	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.8372	281.8372	5.4000e-003	5.1700e-003	283.5524
Mobile	6.3347	16.7339	68.8072	0.1684	10.9733	0.2435	11.2167	2.9343	0.2241	3.1584		14,375.8477	14,375.8477	0.5750		14,387.9227
Total	10.3398	16.9692	69.0523	0.1698	10.9733	0.2615	11.2347	2.9343	0.2421	3.1764		14,657.7856	14,657.7856	0.5807	5.1700e-003	14,671.5817

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	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Energy	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372
Mobile	6.0072	14.4728	60.4065	0.1419	9.1941	0.2064	9.4005	2.4585	0.1900	2.6485		12,114.2043	12,114.2043	0.4905		12,124.5043
Total	10.0086	14.6742	60.6231	0.1431	9.1941	0.2219	9.4159	2.4585	0.2054	2.6639		12,355.3751	12,355.3751	0.4954	4.4200e-003	12,367.1481

	ROG	NOx	CO	SO2	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	3.20	13.52	12.21	15.71	16.21	15.15	16.19	16.21	15.15	16.13	0.00	15.71	15.71	14.69	14.51	15.71

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	2/29/2016	5	143	
4	Building Construction	Building Construction	3/1/2016	2/13/2017	5	250	
5	Paving	Paving	2/14/2017	2/28/2017	5	11	
6	Architectural Coating	Architectural Coating	3/1/2017	5/31/2017	5	66	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 228,000; Non-Residential Outdoor: 76,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Excavators	1	6.00	162	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Building Construction	Welders	3	8.00	46	0.45
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,250.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	56.00	25.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.638 6	1,200.638 6	0.2451		1,205.786 1
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.638 6	1,200.638 6	0.2451		1,205.786 1

3.2 Demolition - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404		320.1875	320.1875	2.5800e-003		320.2416
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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711		447.3297	447.3297	9.8400e-003		447.5362

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					0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	0.3301	6.3628	7.9752	0.0120		0.4354	0.4354		0.4306	0.4306	0.0000	1,200.6386	1,200.6386	0.2451		1,205.7861
Total	0.3301	6.3628	7.9752	0.0120	0.2964	0.4354	0.7318	0.0449	0.4306	0.4755	0.0000	1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0795	1.3249	0.8259	3.1400e-003	0.0735	0.0220	0.0956	0.0201	0.0203	0.0404		320.1875	320.1875	2.5800e-003		320.2416
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	0.0493	0.0620	0.7646	1.4500e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		127.1422	127.1422	7.2600e-003		127.2945
Total	0.1289	1.3869	1.5905	4.5900e-003	0.1853	0.0232	0.2085	0.0498	0.0213	0.0711		447.3297	447.3297	9.8400e-003		447.5362

3.3 Site Preparation - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1273	0.0000	0.1273	0.0137	0.0000	0.0137			0.0000			0.0000
Off-Road	1.4222	14.2999	7.4063	9.3600e-003		0.8797	0.8797		0.8093	0.8093		984.5542	984.5542	0.2939		990.7267
Total	1.4222	14.2999	7.4063	9.3600e-003	0.1273	0.8797	1.0070	0.0137	0.8093	0.8231		984.5542	984.5542	0.2939		990.7267

3.3 Site Preparation - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0247	0.0310	0.3823	7.3000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		63.5711	63.5711	3.6300e-003		63.6473
Total	0.0247	0.0310	0.3823	7.3000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		63.5711	63.5711	3.6300e-003		63.6473

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					0.0496	0.0000	0.0496	5.3600e-003	0.0000	5.3600e-003			0.0000			0.0000
Off-Road	0.2696	4.9081	7.0100	9.3600e-003		0.2845	0.2845		0.2813	0.2813	0.0000	984.5542	984.5542	0.2939		990.7267
Total	0.2696	4.9081	7.0100	9.3600e-003	0.0496	0.2845	0.3342	5.3600e-003	0.2813	0.2867	0.0000	984.5542	984.5542	0.2939		990.7267

3.3 Site Preparation - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0247	0.0310	0.3823	7.3000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		63.5711	63.5711	3.6300e-003		63.6473
Total	0.0247	0.0310	0.3823	7.3000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		63.5711	63.5711	3.6300e-003		63.6473

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7976	0.0000	0.7976	0.4203	0.0000	0.4203			0.0000			0.0000
Off-Road	1.7244	15.5896	11.3932	0.0160		1.0549	1.0549		1.0016	1.0016		1,617.3049	1,617.3049	0.3695		1,625.0646
Total	1.7244	15.5896	11.3932	0.0160	0.7976	1.0549	1.8525	0.4203	1.0016	1.4219		1,617.3049	1,617.3049	0.3695		1,625.0646

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.9875	16.4507	10.2542	0.0390	1.2013	0.2737	1.4750	0.3207	0.2517	0.5725		3,975.6280	3,975.6280	0.0320		3,976.2997
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	0.0641	0.0806	0.9940	1.8900e-003	0.1453	1.4500e-003	0.1468	0.0385	1.3300e-003	0.0399		165.2848	165.2848	9.4300e-003		165.4829
Total	1.0516	16.5313	11.2482	0.0409	1.3466	0.2751	1.6218	0.3593	0.2531	0.6123		4,140.9128	4,140.9128	0.0414		4,141.7826

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					0.3111	0.0000	0.3111	0.1639	0.0000	0.1639			0.0000			0.0000
Off-Road	0.4278	8.2519	10.9881	0.0160		0.5266	0.5266		0.5218	0.5218	0.0000	1,617.3049	1,617.3049	0.3695		1,625.0646
Total	0.4278	8.2519	10.9881	0.0160	0.3111	0.5266	0.8377	0.1639	0.5218	0.6857	0.0000	1,617.3049	1,617.3049	0.3695		1,625.0646

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.9875	16.4507	10.2542	0.0390	1.2013	0.2737	1.4750	0.3207	0.2517	0.5725		3,975.6280	3,975.6280	0.0320		3,976.2997
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	0.0641	0.0806	0.9940	1.8900e-003	0.1453	1.4500e-003	0.1468	0.0385	1.3300e-003	0.0399		165.2848	165.2848	9.4300e-003		165.4829
Total	1.0516	16.5313	11.2482	0.0409	1.3466	0.2751	1.6218	0.3593	0.2531	0.6123		4,140.9128	4,140.9128	0.0414		4,141.7826

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					0.7976	0.0000	0.7976	0.4203	0.0000	0.4203			0.0000			0.0000
Off-Road	1.6034	14.5616	11.2761	0.0160		0.9674	0.9674		0.9178	0.9178		1,606.0492	1,606.0492	0.3630		1,613.6728
Total	1.6034	14.5616	11.2761	0.0160	0.7976	0.9674	1.7650	0.4203	0.9178	1.3381		1,606.0492	1,606.0492	0.3630		1,613.6728

3.4 Grading - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8707	14.5245	9.4270	0.0390	2.5807	0.2173	2.7979	0.6593	0.1999	0.8592		3,931.7459	3,931.7459	0.0288		3,932.3496
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	0.0579	0.0729	0.9018	1.8900e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		159.7728	159.7728	8.7000e-003		159.9554
Total	0.9286	14.5974	10.3288	0.0409	2.7260	0.2186	2.9446	0.6978	0.2011	0.8990		4,091.5187	4,091.5187	0.0375		4,092.3050

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					0.3111	0.0000	0.3111	0.1639	0.0000	0.1639			0.0000			0.0000
Off-Road	0.4233	8.2121	10.9852	0.0160		0.5226	0.5226		0.5181	0.5181	0.0000	1,606.0492	1,606.0492	0.3630		1,613.6728
Total	0.4233	8.2121	10.9852	0.0160	0.3111	0.5226	0.8337	0.1639	0.5181	0.6820	0.0000	1,606.0492	1,606.0492	0.3630		1,613.6728

3.4 Grading - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8707	14.5245	9.4270	0.0390	2.5807	0.2173	2.7979	0.6593	0.1999	0.8592		3,931.745 9	3,931.745 9	0.0288		3,932.349 6
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	0.0579	0.0729	0.9018	1.8900e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		159.7728	159.7728	8.7000e-003		159.9554
Total	0.9286	14.5974	10.3288	0.0409	2.7260	0.2186	2.9446	0.6978	0.2011	0.8990		4,091.518 7	4,091.518 7	0.0375		4,092.305 0

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0369	18.0181	13.6135	0.0197		1.2468	1.2468		1.2015	1.2015		1,825.545 2	1,825.545 2	0.4159		1,834.278 2
Total	3.0369	18.0181	13.6135	0.0197		1.2468	1.2468		1.2015	1.2015		1,825.545 2	1,825.545 2	0.4159		1,834.278 2

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2106	2.1877	2.5417	5.4900e-003	0.1559	0.0342	0.1901	0.0444	0.0315	0.0758		550.5515	550.5515	4.0400e-003		550.6364
Worker	0.2494	0.3139	3.8847	8.1400e-003	0.6260	5.9200e-003	0.6319	0.1660	5.4400e-003	0.1714		688.2519	688.2519	0.0375		689.0387
Total	0.4601	2.5016	6.4264	0.0136	0.7819	0.0401	0.8220	0.2104	0.0369	0.2473		1,238.8035	1,238.8035	0.0415		1,239.6751

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	0.6296	11.2725	12.2594	0.0197		0.7015	0.7015		0.6985	0.6985	0.0000	1,825.5452	1,825.5452	0.4159		1,834.2782
Total	0.6296	11.2725	12.2594	0.0197		0.7015	0.7015		0.6985	0.6985	0.0000	1,825.5452	1,825.5452	0.4159		1,834.2782

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2106	2.1877	2.5417	5.4900e-003	0.1559	0.0342	0.1901	0.0444	0.0315	0.0758		550.5515	550.5515	4.0400e-003		550.6364
Worker	0.2494	0.3139	3.8847	8.1400e-003	0.6260	5.9200e-003	0.6319	0.1660	5.4400e-003	0.1714		688.2519	688.2519	0.0375		689.0387
Total	0.4601	2.5016	6.4264	0.0136	0.7819	0.0401	0.8220	0.2104	0.0369	0.2473		1,238.8035	1,238.8035	0.0415		1,239.6751

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	2.7292	16.8305	13.2770	0.0197		1.1220	1.1220		1.0810	1.0810		1,813.7841	1,813.7841	0.3944		1,822.0664
Total	2.7292	16.8305	13.2770	0.0197		1.1220	1.1220		1.0810	1.0810		1,813.7841	1,813.7841	0.3944		1,822.0664

3.5 Building Construction - 2017**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	0.1926	1.9944	2.3863	5.4900e-003	0.1560	0.0305	0.1864	0.0444	0.0280	0.0724		541.7598	541.7598	3.9100e-003		541.8420
Worker	0.2241	0.2839	3.5197	8.1400e-003	0.6260	5.6700e-003	0.6316	0.1660	5.2300e-003	0.1712		662.4954	662.4954	0.0346		663.2226
Total	0.4168	2.2783	5.9060	0.0136	0.7819	0.0361	0.8181	0.2104	0.0333	0.2436		1,204.2553	1,204.2553	0.0385		1,205.0645

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	0.6260	11.2408	12.2565	0.0197		0.6983	0.6983		0.6955	0.6955	0.0000	1,813.7841	1,813.7841	0.3944		1,822.0664
Total	0.6260	11.2408	12.2565	0.0197		0.6983	0.6983		0.6955	0.6955	0.0000	1,813.7841	1,813.7841	0.3944		1,822.0664

3.5 Building Construction - 2017**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	0.1926	1.9944	2.3863	5.4900e-003	0.1560	0.0305	0.1864	0.0444	0.0280	0.0724		541.7598	541.7598	3.9100e-003		541.8420
Worker	0.2241	0.2839	3.5197	8.1400e-003	0.6260	5.6700e-003	0.6316	0.1660	5.2300e-003	0.1712		662.4954	662.4954	0.0346		663.2226
Total	0.4168	2.2783	5.9060	0.0136	0.7819	0.0361	0.8181	0.2104	0.0333	0.2436		1,204.2553	1,204.2553	0.0385		1,205.0645

3.6 Paving - 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	1.2643	12.1659	8.8529	0.0127		0.7961	0.7961		0.7342	0.7342		1,270.1872	1,270.1872	0.3738		1,278.0377
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2643	12.1659	8.8529	0.0127		0.7961	0.7961		0.7342	0.7342		1,270.1872	1,270.1872	0.3738		1,278.0377

3.6 Paving - 2017

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	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398		153.7936	153.7936	8.0400e-003		153.9624
Total	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398		153.7936	153.7936	8.0400e-003		153.9624

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	0.3181	6.3722	8.8390	0.0127		0.4076	0.4076		0.4052	0.4052	0.0000	1,270.187 2	1,270.187 2	0.3738		1,278.037 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3181	6.3722	8.8390	0.0127		0.4076	0.4076		0.4052	0.4052	0.0000	1,270.187 2	1,270.187 2	0.3738		1,278.037 7

3.6 Paving - 2017**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	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398		153.7936	153.7936	8.0400e-003		153.9624
Total	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398		153.7936	153.7936	8.0400e-003		153.9624

3.7 Architectural Coating - 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					
Archit. Coating	53.3727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	53.7050	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

3.7 Architectural Coating - 2017**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	0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		130.1330	130.1330	6.8000e-003		130.2759
Total	0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		130.1330	130.1330	6.8000e-003		130.2759

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	53.3727					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	0.0297		282.0721
Total	53.4322	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297		282.0721

3.7 Architectural Coating - 2017

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	0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		130.1330	130.1330	6.8000e-003		130.2759
Total	0.0440	0.0558	0.6914	1.6000e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		130.1330	130.1330	6.8000e-003		130.2759

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	6.0072	14.4728	60.4065	0.1419	9.1941	0.2064	9.4005	2.4585	0.1900	2.6485		12,114.20 43	12,114.20 43	0.4905		12,124.50 43
Unmitigated	6.3347	16.7339	68.8072	0.1684	10.9733	0.2435	11.2167	2.9343	0.2241	3.1584		14,375.84 77	14,375.84 77	0.5750		14,387.92 27

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	440.40	94.80	39.20	1,075,048	900,739
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	1,445.20	358.40	62.00	2,833,383	2,373,978
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,885.60	453.20	101.20	3,908,430	3,274,717

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372
NaturalGas Unmitigated	0.0258	0.2349	0.1973	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.8372	281.8372	5.4000e-003	5.1700e-003	283.5524

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1197.81	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003		140.9186	140.9186	2.7000e-003	2.5800e-003	141.7762
Medical Office Building	1197.81	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003		140.9186	140.9186	2.7000e-003	2.5800e-003	141.7762
Other Asphalt Surfaces	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		0.0258	0.2349	0.1973	1.4000e-003		0.0178	0.0178		0.0178	0.0178		281.8372	281.8372	5.4000e-003	5.1600e-003	283.5524

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 Office Building	1.02455	0.0111	0.1005	0.0844	6.0000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003		120.5351	120.5351	2.3100e-003	2.2100e-003	121.2686
Medical Office Building	1.02455	0.0111	0.1005	0.0844	6.0000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003		120.5351	120.5351	2.3100e-003	2.2100e-003	121.2686
Other Asphalt Surfaces	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0221	0.2009	0.1687	1.2000e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372

6.0 Area Detail

6.1 Mitigation Measures Area

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	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Unmitigated	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066

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	0.9651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6200e-003	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Total	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6200e-003	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Total	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

Enclave Nonresidential Alternative
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	308.00	Space	0.00	0.00	0
Other Asphalt Surfaces	72.00	1000sqft	0.00	72,000.00	0
Medical Office Building	40.00	1000sqft	0.36	40,000.00	0
General Office Building	40.00	1000sqft	0.36	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2017
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per nonresidential alternative description

Construction Phase - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment -

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction assumptions

Off-road Equipment - Construction Assumptions

Trips and VMT - Hauling length is average distance to Chiquita and Manning Landfills.

Demolition -

Grading - Per site plan

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Water And Wastewater - Indoor water use includes general and medical office buildings, all outdoor/landscaping, fitness center. See Utilities section of Alternatives

Solid Waste - See Utilities section of Alternatives. Solid waste calculation includes general and medical office

Construction Off-road Equipment Mitigation - Tier 3 engines required by CARB

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	NumDays	5.00	66.00

tblConstructionPhase	NumDays	100.00	250.00
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tblConstructionPhase	NumDays	2.00	143.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	1.00	6.00
tblGrading	AcresOfGrading	0.00	0.72
tblGrading	AcresOfGrading	3.00	0.72
tblGrading	MaterialExported	0.00	50,000.00
tblLandUse	LandUseSquareFeet	123,200.00	0.00
tblLandUse	LotAcreage	2.77	0.00
tblLandUse	LotAcreage	1.65	0.00
tblLandUse	LotAcreage	0.92	0.36
tblLandUse	LotAcreage	0.92	0.36
tblOffRoadEquipment	HorsePower	130.00	97.00
tblOffRoadEquipment	LoadFactor	0.36	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	37.20	56.00
tblSolidWaste	SolidWasteGenerationRate	432.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00

tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblWater	IndoorWaterUseRate	7,109,349.92	7,299,072.00
tblWater	IndoorWaterUseRate	5,019,221.50	0.00
tblWater	OutdoorWaterUseRate	4,357,343.50	0.00
tblWater	OutdoorWaterUseRate	956,042.19	0.00

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					
2015	2.8335	32.7192	23.9602	0.0568	2.1443	1.3308	3.4751	0.7796	1.2553	2.0350	0.0000	5,741.1597	5,741.1597	0.4113	0.0000	5,749.7960
2016	3.5287	29.6869	22.9266	0.0567	3.5236	1.2873	4.7101	1.1182	1.2387	2.2375	0.0000	5,680.8762	5,680.8762	0.4575	0.0000	5,690.4833
2017	53.7507	19.1887	19.5037	0.0328	0.7819	1.1585	1.9404	0.2104	1.1145	1.3249	0.0000	2,976.2956	2,976.2956	0.4331	0.0000	2,985.3896
Total	60.1129	81.5948	66.3905	0.1463	6.4498	3.7766	10.1256	2.1082	3.6086	5.5973	0.0000	14,398.3314	14,398.3314	1.3018	0.0000	14,425.6689

Mitigated 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					
2015	1.5368	25.3816	23.5551	0.0568	1.6577	0.8025	2.4603	0.5232	0.7756	1.2988	0.0000	5,741.1597	5,741.1597	0.4113	0.0000	5,749.7960
2016	1.3995	23.3374	22.6357	0.0567	3.0370	0.7420	3.7787	0.8618	0.7357	1.5813	0.0000	5,680.8762	5,680.8762	0.4575	0.0000	5,690.4833
2017	53.4779	13.5990	18.4832	0.0328	0.7819	0.7347	1.5166	0.2104	0.7290	0.9394	0.0000	2,976.2956	2,976.2956	0.4331	0.0000	2,985.3896
Total	56.4142	62.3180	64.6741	0.1463	5.4767	2.2792	7.7556	1.5954	2.2404	3.8196	0.0000	14,398.3314	14,398.3314	1.3018	0.0000	14,425.6689

	ROG	NOx	CO	SO2	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	6.15	23.63	2.59	0.00	15.09	39.65	23.41	24.33	37.92	31.76	0.00	0.00	0.00	0.00	0.00	0.00

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	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Energy	0.0258	0.2349	0.1973	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.8372	281.8372	5.4000e-003	5.1700e-003	283.5524
Mobile	6.6688	17.6171	69.6186	0.1608	10.9733	0.2446	11.2178	2.9343	0.2251	3.1594		13,750.2405	13,750.2405	0.5755		13,762.3268
Total	10.6739	17.8524	69.8637	0.1622	10.9733	0.2626	11.2358	2.9343	0.2431	3.1774		14,032.1784	14,032.1784	0.5812	5.1700e-003	14,045.9858

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	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Energy	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372
Mobile	6.3500	15.2178	61.9363	0.1355	9.1941	0.2075	9.4016	2.4585	0.1910	2.6495		11,587.1950	11,587.1950	0.4910		11,597.5062
Total	10.3514	15.4191	62.1529	0.1367	9.1941	0.2230	9.4170	2.4585	0.2064	2.6649		11,828.3658	11,828.3658	0.4959	4.4200e-003	11,840.1500

	ROG	NOx	CO	SO2	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	3.02	13.63	11.04	15.70	16.21	15.09	16.19	16.21	15.08	16.13	0.00	15.71	15.71	14.68	14.51	15.70

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	7/1/2015	8/4/2015	5	25	
2	Site Preparation	Site Preparation	8/5/2015	8/12/2015	5	6	
3	Grading	Grading	8/13/2015	2/29/2016	5	143	
4	Building Construction	Building Construction	3/1/2016	2/13/2017	5	250	
5	Paving	Paving	2/14/2017	2/28/2017	5	11	
6	Architectural Coating	Architectural Coating	3/1/2017	5/31/2017	5	66	

Acres of Grading (Site Preparation Phase): 0.72

Acres of Grading (Grading Phase): 0.72

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 228,000; Non-Residential Outdoor: 76,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	7.00	97	0.37
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Excavators	1	6.00	162	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Building Construction	Welders	3	8.00	46	0.45
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	4	10.00	0.00	88.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,250.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	56.00	25.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	24.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7599	0.0000	0.7599	0.1151	0.0000	0.1151			0.0000			0.0000
Off-Road	1.4120	11.9409	8.8138	0.0120		0.8748	0.8748		0.8359	0.8359		1,200.638 6	1,200.638 6	0.2451		1,205.786 1
Total	1.4120	11.9409	8.8138	0.0120	0.7599	0.8748	1.6347	0.1151	0.8359	0.9509		1,200.638 6	1,200.638 6	0.2451		1,205.786 1

3.2 Demolition - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405		319.5604	319.5604	2.6000e-003		319.6150
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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711		439.5711	439.5711	9.8600e-003		439.7782

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					0.2964	0.0000	0.2964	0.0449	0.0000	0.0449			0.0000			0.0000
Off-Road	0.3301	6.3628	7.9752	0.0120		0.4354	0.4354		0.4306	0.4306	0.0000	1,200.6386	1,200.6386	0.2451		1,205.7861
Total	0.3301	6.3628	7.9752	0.0120	0.2964	0.4354	0.7318	0.0449	0.4306	0.4755	0.0000	1,200.6386	1,200.6386	0.2451		1,205.7861

3.2 Demolition - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0839	1.3724	0.9367	3.1400e-003	0.0735	0.0221	0.0956	0.0201	0.0203	0.0405		319.5604	319.5604	2.6000e-003		319.6150
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	0.0514	0.0688	0.7205	1.3700e-003	0.1118	1.1200e-003	0.1129	0.0296	1.0200e-003	0.0307		120.0108	120.0108	7.2600e-003		120.1631
Total	0.1353	1.4411	1.6571	4.5100e-003	0.1853	0.0232	0.2085	0.0498	0.0214	0.0711		439.5711	439.5711	9.8600e-003		439.7782

3.3 Site Preparation - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1273	0.0000	0.1273	0.0137	0.0000	0.0137			0.0000			0.0000
Off-Road	1.4222	14.2999	7.4063	9.3600e-003		0.8797	0.8797		0.8093	0.8093		984.5542	984.5542	0.2939		990.7267
Total	1.4222	14.2999	7.4063	9.3600e-003	0.1273	0.8797	1.0070	0.0137	0.8093	0.8231		984.5542	984.5542	0.2939		990.7267

3.3 Site Preparation - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0257	0.0344	0.3602	6.9000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		60.0054	60.0054	3.6300e-003		60.0816
Total	0.0257	0.0344	0.3602	6.9000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		60.0054	60.0054	3.6300e-003		60.0816

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					0.0496	0.0000	0.0496	5.3600e-003	0.0000	5.3600e-003			0.0000			0.0000
Off-Road	0.2696	4.9081	7.0100	9.3600e-003		0.2845	0.2845		0.2813	0.2813	0.0000	984.5542	984.5542	0.2939		990.7267
Total	0.2696	4.9081	7.0100	9.3600e-003	0.0496	0.2845	0.3342	5.3600e-003	0.2813	0.2867	0.0000	984.5542	984.5542	0.2939		990.7267

3.3 Site Preparation - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0257	0.0344	0.3602	6.9000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		60.0054	60.0054	3.6300e-003		60.0816
Total	0.0257	0.0344	0.3602	6.9000e-004	0.0559	5.6000e-004	0.0565	0.0148	5.1000e-004	0.0153		60.0054	60.0054	3.6300e-003		60.0816

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7976	0.0000	0.7976	0.4203	0.0000	0.4203			0.0000			0.0000
Off-Road	1.7244	15.5896	11.3932	0.0160		1.0549	1.0549		1.0016	1.0016		1,617.3049	1,617.3049	0.3695		1,625.0646
Total	1.7244	15.5896	11.3932	0.0160	0.7976	1.0549	1.8525	0.4203	1.0016	1.4219		1,617.3049	1,617.3049	0.3695		1,625.0646

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0423	17.0403	11.6304	0.0390	1.2013	0.2745	1.4758	0.3207	0.2525	0.5732		3,967.8408	3,967.8408	0.0323		3,968.5193
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	0.0668	0.0894	0.9366	1.7800e-003	0.1453	1.4500e-003	0.1468	0.0385	1.3300e-003	0.0399		156.0140	156.0140	9.4300e-003		156.2121
Total	1.1091	17.1297	12.5670	0.0408	1.3466	0.2759	1.6226	0.3593	0.2538	0.6131		4,123.8548	4,123.8548	0.0417		4,124.7313

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					0.3111	0.0000	0.3111	0.1639	0.0000	0.1639			0.0000			0.0000
Off-Road	0.4278	8.2519	10.9881	0.0160		0.5266	0.5266		0.5218	0.5218	0.0000	1,617.3049	1,617.3049	0.3695		1,625.0646
Total	0.4278	8.2519	10.9881	0.0160	0.3111	0.5266	0.8377	0.1639	0.5218	0.6857	0.0000	1,617.3049	1,617.3049	0.3695		1,625.0646

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0423	17.0403	11.6304	0.0390	1.2013	0.2745	1.4758	0.3207	0.2525	0.5732		3,967.8408	3,967.8408	0.0323		3,968.5193
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	0.0668	0.0894	0.9366	1.7800e-003	0.1453	1.4500e-003	0.1468	0.0385	1.3300e-003	0.0399		156.0140	156.0140	9.4300e-003		156.2121
Total	1.1091	17.1297	12.5670	0.0408	1.3466	0.2759	1.6226	0.3593	0.2538	0.6131		4,123.8548	4,123.8548	0.0417		4,124.7313

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					0.7976	0.0000	0.7976	0.4203	0.0000	0.4203			0.0000			0.0000
Off-Road	1.6034	14.5616	11.2761	0.0160		0.9674	0.9674		0.9178	0.9178		1,606.0492	1,606.0492	0.3630		1,613.6728
Total	1.6034	14.5616	11.2761	0.0160	0.7976	0.9674	1.7650	0.4203	0.9178	1.3381		1,606.0492	1,606.0492	0.3630		1,613.6728

3.4 Grading - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.9159	15.0445	10.8038	0.0389	2.5807	0.2177	2.7983	0.6593	0.2003	0.8596		3,924.0230	3,924.0230	0.0291		3,924.6331
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	0.0602	0.0808	0.8468	1.7800e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		150.8040	150.8040	8.7000e-003		150.9867
Total	0.9762	15.1253	11.6505	0.0407	2.7260	0.2191	2.9450	0.6978	0.2015	0.8994		4,074.8270	4,074.8270	0.0378		4,075.6198

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					0.3111	0.0000	0.3111	0.1639	0.0000	0.1639			0.0000			0.0000
Off-Road	0.4233	8.2121	10.9852	0.0160		0.5226	0.5226		0.5181	0.5181	0.0000	1,606.0492	1,606.0492	0.3630		1,613.6728
Total	0.4233	8.2121	10.9852	0.0160	0.3111	0.5226	0.8337	0.1639	0.5181	0.6820	0.0000	1,606.0492	1,606.0492	0.3630		1,613.6728

3.4 Grading - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.9159	15.0445	10.8038	0.0389	2.5807	0.2177	2.7983	0.6593	0.2003	0.8596		3,924.0230	3,924.0230	0.0291		3,924.6331
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	0.0602	0.0808	0.8468	1.7800e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		150.8040	150.8040	8.7000e-003		150.9867
Total	0.9762	15.1253	11.6505	0.0407	2.7260	0.2191	2.9450	0.6978	0.2015	0.8994		4,074.8270	4,074.8270	0.0378		4,075.6198

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0369	18.0181	13.6135	0.0197		1.2468	1.2468		1.2015	1.2015		1,825.5452	1,825.5452	0.4159		1,834.2782
Total	3.0369	18.0181	13.6135	0.0197		1.2468	1.2468		1.2015	1.2015		1,825.5452	1,825.5452	0.4159		1,834.2782

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2324	2.2426	3.0946	5.4600e-003	0.1559	0.0346	0.1905	0.0444	0.0318	0.0761		545.9803	545.9803	4.1600e-003		546.0676
Worker	0.2595	0.3481	3.6477	7.6800e-003	0.6260	5.9200e-003	0.6319	0.1660	5.4400e-003	0.1714		649.6174	649.6174	0.0375		650.4042
Total	0.4919	2.5907	6.7422	0.0131	0.7819	0.0405	0.8223	0.2104	0.0372	0.2476		1,195.5977	1,195.5977	0.0416		1,196.4718

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	0.6296	11.2725	12.2594	0.0197		0.7015	0.7015		0.6985	0.6985	0.0000	1,825.5452	1,825.5452	0.4159		1,834.2782
Total	0.6296	11.2725	12.2594	0.0197		0.7015	0.7015		0.6985	0.6985	0.0000	1,825.5452	1,825.5452	0.4159		1,834.2782

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2324	2.2426	3.0946	5.4600e-003	0.1559	0.0346	0.1905	0.0444	0.0318	0.0761		545.9803	545.9803	4.1600e-003		546.0676
Worker	0.2595	0.3481	3.6477	7.6800e-003	0.6260	5.9200e-003	0.6319	0.1660	5.4400e-003	0.1714		649.6174	649.6174	0.0375		650.4042
Total	0.4919	2.5907	6.7422	0.0131	0.7819	0.0405	0.8223	0.2104	0.0372	0.2476		1,195.5977	1,195.5977	0.0416		1,196.4718

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	2.7292	16.8305	13.2770	0.0197		1.1220	1.1220		1.0810	1.0810		1,813.7841	1,813.7841	0.3944		1,822.0664
Total	2.7292	16.8305	13.2770	0.0197		1.1220	1.1220		1.0810	1.0810		1,813.7841	1,813.7841	0.3944		1,822.0664

3.5 Building Construction - 2017**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	0.2115	2.0434	2.9352	5.4500e-003	0.1560	0.0308	0.1868	0.0444	0.0283	0.0727		537.2516	537.2516	4.0300e-003		537.3362
Worker	0.2327	0.3148	3.2915	7.6800e-003	0.6260	5.6700e-003	0.6316	0.1660	5.2300e-003	0.1712		625.2598	625.2598	0.0346		625.9870
Total	0.4442	2.3582	6.2267	0.0131	0.7819	0.0365	0.8184	0.2104	0.0335	0.2439		1,162.5114	1,162.5114	0.0387		1,163.3232

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	0.6260	11.2408	12.2565	0.0197		0.6983	0.6983		0.6955	0.6955	0.0000	1,813.7841	1,813.7841	0.3944		1,822.0664
Total	0.6260	11.2408	12.2565	0.0197		0.6983	0.6983		0.6955	0.6955	0.0000	1,813.7841	1,813.7841	0.3944		1,822.0664

3.5 Building Construction - 2017

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	0.2115	2.0434	2.9352	5.4500e-003	0.1560	0.0308	0.1868	0.0444	0.0283	0.0727		537.2516	537.2516	4.0300e-003		537.3362
Worker	0.2327	0.3148	3.2915	7.6800e-003	0.6260	5.6700e-003	0.6316	0.1660	5.2300e-003	0.1712		625.2598	625.2598	0.0346		625.9870
Total	0.4442	2.3582	6.2267	0.0131	0.7819	0.0365	0.8184	0.2104	0.0335	0.2439		1,162.5114	1,162.5114	0.0387		1,163.3232

3.6 Paving - 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	1.2643	12.1659	8.8529	0.0127		0.7961	0.7961		0.7342	0.7342		1,270.1872	1,270.1872	0.3738		1,278.0377
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2643	12.1659	8.8529	0.0127		0.7961	0.7961		0.7342	0.7342		1,270.1872	1,270.1872	0.3738		1,278.0377

3.6 Paving - 2017

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	0.0540	0.0731	0.7641	1.7800e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398		145.1496	145.1496	8.0400e-003		145.3184
Total	0.0540	0.0731	0.7641	1.7800e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398		145.1496	145.1496	8.0400e-003		145.3184

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	0.3181	6.3722	8.8390	0.0127		0.4076	0.4076		0.4052	0.4052	0.0000	1,270.187 2	1,270.187 2	0.3738		1,278.037 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3181	6.3722	8.8390	0.0127		0.4076	0.4076		0.4052	0.4052	0.0000	1,270.187 2	1,270.187 2	0.3738		1,278.037 7

3.6 Paving - 2017**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	0.0540	0.0731	0.7641	1.7800e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398		145.1496	145.1496	8.0400e-003		145.3184
Total	0.0540	0.0731	0.7641	1.7800e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398		145.1496	145.1496	8.0400e-003		145.3184

3.7 Architectural Coating - 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					
Archit. Coating	53.3727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	53.7050	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

3.7 Architectural Coating - 2017**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	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		122.8189	122.8189	6.8000e-003		122.9617
Total	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		122.8189	122.8189	6.8000e-003		122.9617

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	53.3727					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	0.0297		282.0721
Total	53.4322	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297		282.0721

3.7 Architectural Coating - 2017

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	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		122.8189	122.8189	6.8000e-003		122.9617
Total	0.0457	0.0618	0.6466	1.5100e-003	0.1230	1.1100e-003	0.1241	0.0326	1.0300e-003	0.0336		122.8189	122.8189	6.8000e-003		122.9617

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	6.3500	15.2178	61.9363	0.1355	9.1941	0.2075	9.4016	2.4585	0.1910	2.6495		11,587.1950	11,587.1950	0.4910		11,597.5062
Unmitigated	6.6688	17.6171	69.6186	0.1608	10.9733	0.2446	11.2178	2.9343	0.2251	3.1594		13,750.2405	13,750.2405	0.5755		13,762.3268

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	440.40	94.80	39.20	1,075,048	900,739
Enclosed Parking with Elevator	0.00	0.00	0.00		
Medical Office Building	1,445.20	358.40	62.00	2,833,383	2,373,978
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,885.60	453.20	101.20	3,908,430	3,274,717

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372
NaturalGas Unmitigated	0.0258	0.2349	0.1973	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.8372	281.8372	5.4000e-003	5.1700e-003	283.5524

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1197.81	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003		140.9186	140.9186	2.7000e-003	2.5800e-003	141.7762
Medical Office Building	1197.81	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003		140.9186	140.9186	2.7000e-003	2.5800e-003	141.7762
Other Asphalt Surfaces	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		0.0258	0.2349	0.1973	1.4000e-003		0.0178	0.0178		0.0178	0.0178		281.8372	281.8372	5.4000e-003	5.1600e-003	283.5524

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 Office Building	1.02455	0.0111	0.1005	0.0844	6.0000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003		120.5351	120.5351	2.3100e-003	2.2100e-003	121.2686
Medical Office Building	1.02455	0.0111	0.1005	0.0844	6.0000e-004		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003		120.5351	120.5351	2.3100e-003	2.2100e-003	121.2686
Other Asphalt Surfaces	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0221	0.2009	0.1687	1.2000e-003		0.0153	0.0153		0.0153	0.0153		241.0701	241.0701	4.6200e-003	4.4200e-003	242.5372

6.0 Area Detail

6.1 Mitigation Measures Area

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	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Unmitigated	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066

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	0.9651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6200e-003	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Total	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9651					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6200e-003	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066
Total	3.9793	4.5000e-004	0.0479	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1007	0.1007	2.8000e-004		0.1066

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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