

**Westmont Assisted Living 2**  
**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	134.00	Dwelling Unit	4.07	120,213.00	149

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2018
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

## Project Characteristics -

Land Use - Acreage provided by applicant. Population est. by no. of unit types

Construction Phase - Const duration 3/1/17 - 4/30/18

Bldng construction - HVAC = 1 crane, 1 week.

Construction days overlap. Total no. of days ~ 361: 259 in 2017, 102 in 2018

No work 11/23/17, 11/24/17, 12/26/17, 1/1/17

## Off-road Equipment -

Off-road Equipment - Values provided by applicant.  
Structure is wood-framed.

Off-road Equipment - Generator set used for 1st week of construction.

Off-road Equipment - Cranes used for 1 week to install roof-mount HVAC.

Off-road Equipment - Values provided by applicant

Off-road Equipment - Values provided by applicant

Off-road Equipment - Crane used for 1 week in construction phase. Gen set used 1 week in construction.

Grading - Values provided by applicant

Woodstoves - No fireplaces or wood stoves.

Landscape Equipment - No turf = no lawnmowing. Equipt likely limited to blowers.

## Energy Use -

Land Use Change - Annual "grassland" occupies only part of site.

## Sequestration -

Construction Off-road Equipment Mitigation - All exposed ground will be covered at end of construction by pavement, buildings, or 43,000 ft<sup>2</sup> +/- of landscaping. If necessary to mitigate all equipt will use Tier 4 engines.

Mobile Land Use Mitigation - Project is within 2 miles of transit center & retail (CVS, Target, Nugget, theater, services)

Mobile Commute Mitigation - Van for residents will substitute for individual vehicles. Mode share is estimated.

Area Mitigation - No lawnmowers would be used.  
Attempt for 50% electric leafblowers. No chainsaws.

Energy Mitigation - Amounts estimated.

Water Mitigation - No turf specified in landscape.

## Waste Mitigation -

Trips and VMT - Assume 20-yd capacity trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblCommuteMitigation	EmployeeVanpoolPercentModeShare	2	10
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	230.00	333.00
tblConstructionPhase	NumDays	230.00	7.00
tblConstructionPhase	NumDays	230.00	7.00
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	4/23/2018	4/17/2018
tblConstructionPhase	PhaseEndDate	5/2/2018	4/8/2017
tblConstructionPhase	PhaseEndDate	4/17/2017	10/9/2017
tblConstructionPhase	PhaseEndDate	4/1/2017	3/31/2017

tblConstructionPhase	PhaseEndDate	10/25/2017	4/6/2018
tblConstructionPhase	PhaseStartDate	4/7/2018	4/2/2018
tblConstructionPhase	PhaseStartDate	4/25/2018	4/1/2017
tblConstructionPhase	PhaseStartDate	4/9/2017	10/2/2017
tblConstructionPhase	PhaseStartDate	3/9/2017	3/8/2017
tblConstructionPhase	PhaseStartDate	10/10/2017	3/22/2018
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	73.70	0.00
tblFireplaces	NumberNoFireplace	13.40	134.00
tblFireplaces	NumberWood	46.90	0.00
tblGrading	AcresOfGrading	10.50	4.00
tblGrading	AcresOfGrading	10.50	0.00
tblGrading	MaterialExported	0.00	1,000.00
tblLandscapeEquipment	NumberSummerDays	180	40
tblLandUse	LandUseSquareFeet	134,000.00	120,213.00
tblLandUse	LotAcreage	8.38	4.07
tblLandUse	Population	383.00	149.00
tblOffRoadEquipment	HorsePower	174.00	255.00
tblOffRoadEquipment	LoadFactor	0.41	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Graders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSequestration	NumberOfNewTrees	0.00	89.00
tblTripsAndVMT	HaulingTripNumber	125.00	100.00
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50

tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentageReduction	6.1	30
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00

## 2.0 Emissions Summary

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**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					
2017	0.2256	1.4275	1.8559	2.6000e-003	0.2273	0.0823	0.3095	0.0962	0.0770	0.1732	0.0000	211.1710	211.1710	0.0334	0.0000	211.8730
2018	0.8253	0.4283	0.6426	1.0100e-003	0.0399	0.0257	0.0655	0.0107	0.0241	0.0348	0.0000	79.8880	79.8880	0.0120	0.0000	80.1403
<b>Total</b>	<b>1.0508</b>	<b>1.8558</b>	<b>2.4985</b>	<b>3.6100e-003</b>	<b>0.2671</b>	<b>0.1079</b>	<b>0.3750</b>	<b>0.1069</b>	<b>0.1011</b>	<b>0.2080</b>	<b>0.0000</b>	<b>291.0590</b>	<b>291.0590</b>	<b>0.0454</b>	<b>0.0000</b>	<b>292.0133</b>

**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					
2017	0.0973	0.5659	1.7502	2.6000e-003	0.0986	0.0139	0.1125	0.0264	0.0129	0.0393	0.0000	211.1709	211.1709	0.0334	0.0000	211.8729
2018	0.7804	0.1352	0.6295	1.0100e-003	0.0399	1.5700e-003	0.0414	0.0107	1.5000e-003	0.0122	0.0000	79.8879	79.8879	0.0120	0.0000	80.1402
<b>Total</b>	<b>0.8776</b>	<b>0.7010</b>	<b>2.3797</b>	<b>3.6100e-003</b>	<b>0.1385</b>	<b>0.0155</b>	<b>0.1539</b>	<b>0.0371</b>	<b>0.0144</b>	<b>0.0515</b>	<b>0.0000</b>	<b>291.0588</b>	<b>291.0588</b>	<b>0.0454</b>	<b>0.0000</b>	<b>292.0131</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>16.48</b>	<b>62.23</b>	<b>4.75</b>	<b>0.00</b>	<b>48.17</b>	<b>85.67</b>	<b>58.96</b>	<b>65.28</b>	<b>85.75</b>	<b>75.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 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	0.6644	2.5800e-003	0.2227	1.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	0.3612	0.3612	3.6000e-004	0.0000	0.3687
Energy	3.1500e-003	0.0269	0.0114	1.7000e-004		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	168.4174	168.4174	6.8000e-003	1.8600e-003	169.1354
Mobile	0.2193	0.4895	2.2089	5.1700e-003	0.3706	6.2100e-003	0.3768	0.0992	5.7200e-003	0.1050	0.0000	379.4801	379.4801	0.0162	0.0000	379.8201
Waste						0.0000	0.0000		0.0000	0.0000	24.8197	0.0000	24.8197	1.4668	0.0000	55.6226
Water						0.0000	0.0000		0.0000	0.0000	2.7698	19.3473	22.1171	0.2854	6.9000e-003	30.2483
<b>Total</b>	<b>0.8869</b>	<b>0.5189</b>	<b>2.4430</b>	<b>5.3500e-003</b>	<b>0.3706</b>	<b>9.6000e-003</b>	<b>0.3802</b>	<b>0.0992</b>	<b>9.1100e-003</b>	<b>0.1084</b>	<b>27.5895</b>	<b>567.6060</b>	<b>595.1955</b>	<b>1.7755</b>	<b>8.7600e-003</b>	<b>635.1950</b>

**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	0.5134	2.0400e-003	0.1694	1.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	0.2539	0.2539	1.9000e-004	0.0000	0.2580
Energy	2.6600e-003	0.0227	9.6700e-003	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	122.8507	122.8507	4.8700e-003	1.3900e-003	123.3825
Mobile	0.2130	0.4533	2.0681	4.7600e-003	0.3398	5.7300e-003	0.3455	0.0910	5.2800e-003	0.0963	0.0000	348.7406	348.7406	0.0150	0.0000	349.0554
Waste						0.0000	0.0000		0.0000	0.0000	18.6148	0.0000	18.6148	1.1001	0.0000	41.7169
Water						0.0000	0.0000		0.0000	0.0000	2.2159	13.3673	15.5832	0.2282	5.4900e-003	22.0764
<b>Total</b>	<b>0.7291</b>	<b>0.4780</b>	<b>2.2472</b>	<b>4.9200e-003</b>	<b>0.3398</b>	<b>8.4700e-003</b>	<b>0.3483</b>	<b>0.0910</b>	<b>8.0200e-003</b>	<b>0.0990</b>	<b>20.8306</b>	<b>485.2126</b>	<b>506.0432</b>	<b>1.3483</b>	<b>6.8800e-003</b>	<b>536.4892</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>17.79</b>	<b>7.88</b>	<b>8.02</b>	<b>8.04</b>	<b>8.31</b>	<b>11.77</b>	<b>8.40</b>	<b>8.31</b>	<b>11.96</b>	<b>8.62</b>	<b>24.50</b>	<b>14.52</b>	<b>14.98</b>	<b>24.06</b>	<b>21.46</b>	<b>15.54</b>

### 2.3 Vegetation

#### Vegetation

	CO2e
Category	MT
New Trees	63.0120
Vegetation Land Change	-8.6200
<b>Total</b>	<b>54.3920</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2017	3/8/2017	6	7	Rough grading
2	Grading	Grading	3/8/2017	3/31/2017	6	21	Finish grading
3	Building Construction	Building Construction	4/1/2017	4/24/2018	6	333	Framing, finish construction
4	Building Construction - generator powered	Building Construction	4/1/2017	4/8/2017	6	7	1st week before power hookup
5	Building Construction - HVAC	Building Construction	10/2/2017	10/9/2017	6	7	Install HVAC w/crane
6	Paving	Paving	3/22/2018	4/6/2018	6	14	
7	Architectural Coating	Architectural Coating	4/2/2018	4/17/2018	6	14	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 243,431; Residential Outdoor: 81,144; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Site Preparation	Graders	1	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	0	7.00	226	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Building Construction - generator powered	Cranes	0	7.00	226	0.29
Building Construction - generator powered	Forklifts	0	8.00	89	0.20
Building Construction - generator powered	Generator Sets	1	8.00	84	0.74
Building Construction - generator powered	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction - generator powered	Welders	0	8.00	46	0.45
Building Construction - HVAC	Cranes	1	8.00	226	0.29
Building Construction - HVAC	Forklifts	0	8.00	89	0.20
Building Construction - HVAC	Generator Sets	0	8.00	84	0.74
Building Construction - HVAC	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction - HVAC	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42

Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40

**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
Site Preparation	6	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - generator powered	1	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - HVAC	1	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

### 3.2 Site Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0632	0.0000	0.0632	0.0348	0.0000	0.0348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0201	0.2274	0.1582	1.9000e-004		0.0103	0.0103		9.4800e-003	9.4800e-003	0.0000	17.2373	17.2373	5.2800e-003	0.0000	17.3482
<b>Total</b>	<b>0.0201</b>	<b>0.2274</b>	<b>0.1582</b>	<b>1.9000e-004</b>	<b>0.0632</b>	<b>0.0103</b>	<b>0.0735</b>	<b>0.0348</b>	<b>9.4800e-003</b>	<b>0.0442</b>	<b>0.0000</b>	<b>17.2373</b>	<b>17.2373</b>	<b>5.2800e-003</b>	<b>0.0000</b>	<b>17.3482</b>

#### 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	9.0000e-005	1.1000e-004	1.1300e-003	0.0000	2.0000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1783	0.1783	1.0000e-005	0.0000	0.1785
<b>Total</b>	<b>9.0000e-005</b>	<b>1.1000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1783</b>	<b>0.1783</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1785</b>

**3.2 Site Preparation - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1100	0.1332	1.9000e-004		5.0200e-003	5.0200e-003		4.6300e-003	4.6300e-003	0.0000	17.2373	17.2373	5.2800e-003	0.0000	17.3482
<b>Total</b>	<b>0.0108</b>	<b>0.1100</b>	<b>0.1332</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>5.0200e-003</b>	<b>5.0200e-003</b>	<b>0.0000</b>	<b>4.6300e-003</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>17.2373</b>	<b>17.2373</b>	<b>5.2800e-003</b>	<b>0.0000</b>	<b>17.3482</b>

**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	9.0000e-005	1.1000e-004	1.1300e-003	0.0000	2.0000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1783	0.1783	1.0000e-005	0.0000	0.1785
<b>Total</b>	<b>9.0000e-005</b>	<b>1.1000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1783</b>	<b>0.1783</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1785</b>

### 3.3 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0654	0.0000	0.0654	0.0350	0.0000	0.0350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0283	0.2957	0.1992	2.2000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	20.0470	20.0470	6.1400e-003	0.0000	20.1760
<b>Total</b>	<b>0.0283</b>	<b>0.2957</b>	<b>0.1992</b>	<b>2.2000e-004</b>	<b>0.0654</b>	<b>0.0163</b>	<b>0.0818</b>	<b>0.0350</b>	<b>0.0150</b>	<b>0.0500</b>	<b>0.0000</b>	<b>20.0470</b>	<b>20.0470</b>	<b>6.1400e-003</b>	<b>0.0000</b>	<b>20.1760</b>

#### 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	1.4800e-003	0.0123	0.0357	3.0000e-005	8.0000e-004	1.2000e-004	9.1000e-004	2.2000e-004	1.1000e-004	3.2000e-004	0.0000	2.5264	2.5264	2.0000e-005	0.0000	2.5268
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	4.1000e-004	4.2200e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6687	0.6687	3.0000e-005	0.0000	0.6694
<b>Total</b>	<b>1.8300e-003</b>	<b>0.0128</b>	<b>0.0400</b>	<b>4.0000e-005</b>	<b>1.5700e-003</b>	<b>1.3000e-004</b>	<b>1.6800e-003</b>	<b>4.2000e-004</b>	<b>1.2000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>3.1951</b>	<b>3.1951</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.1962</b>

### 3.3 Grading - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0112	0.1116	0.1806	2.2000e-004		5.0600e-003	5.0600e-003		4.6800e-003	4.6800e-003	0.0000	20.0470	20.0470	6.1400e-003	0.0000	20.1760
<b>Total</b>	<b>0.0112</b>	<b>0.1116</b>	<b>0.1806</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>4.6800e-003</b>	<b>4.6800e-003</b>	<b>0.0000</b>	<b>20.0470</b>	<b>20.0470</b>	<b>6.1400e-003</b>	<b>0.0000</b>	<b>20.1760</b>

#### 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	1.4800e-003	0.0123	0.0357	3.0000e-005	8.0000e-004	1.2000e-004	9.1000e-004	2.2000e-004	1.1000e-004	3.2000e-004	0.0000	2.5264	2.5264	2.0000e-005	0.0000	2.5268
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	4.1000e-004	4.2200e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6687	0.6687	3.0000e-005	0.0000	0.6694
<b>Total</b>	<b>1.8300e-003</b>	<b>0.0128</b>	<b>0.0400</b>	<b>4.0000e-005</b>	<b>1.5700e-003</b>	<b>1.3000e-004</b>	<b>1.6800e-003</b>	<b>4.2000e-004</b>	<b>1.2000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>3.1951</b>	<b>3.1951</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.1962</b>

### 3.4 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	0.1085	0.6606	0.5641	7.3000e-004		0.0507	0.0507		0.0478	0.0478	0.0000	62.1337	62.1337	0.0171	0.0000	62.4917
<b>Total</b>	<b>0.1085</b>	<b>0.6606</b>	<b>0.5641</b>	<b>7.3000e-004</b>		<b>0.0507</b>	<b>0.0507</b>		<b>0.0478</b>	<b>0.0478</b>	<b>0.0000</b>	<b>62.1337</b>	<b>62.1337</b>	<b>0.0171</b>	<b>0.0000</b>	<b>62.4917</b>

#### 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	0.0216	0.1339	0.3682	3.0000e-004	9.1600e-003	1.7800e-003	0.0109	2.6100e-003	1.6400e-003	4.2500e-003	0.0000	26.8511	26.8511	2.1000e-004	0.0000	26.8556
Worker	0.0373	0.0440	0.4533	1.0000e-003	0.0822	6.6000e-004	0.0829	0.0219	6.1000e-004	0.0225	0.0000	71.8380	71.8380	3.7300e-003	0.0000	71.9163
<b>Total</b>	<b>0.0590</b>	<b>0.1779</b>	<b>0.8216</b>	<b>1.3000e-003</b>	<b>0.0914</b>	<b>2.4400e-003</b>	<b>0.0938</b>	<b>0.0245</b>	<b>2.2500e-003</b>	<b>0.0267</b>	<b>0.0000</b>	<b>98.6892</b>	<b>98.6892</b>	<b>3.9400e-003</b>	<b>0.0000</b>	<b>98.7719</b>

### 3.4 Building Construction - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.1409	0.5017	7.3000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	62.1336	62.1336	0.0171	0.0000	62.4916
<b>Total</b>	<b>0.0104</b>	<b>0.1409</b>	<b>0.5017</b>	<b>7.3000e-004</b>		<b>1.0500e-003</b>	<b>1.0500e-003</b>		<b>1.0500e-003</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>62.1336</b>	<b>62.1336</b>	<b>0.0171</b>	<b>0.0000</b>	<b>62.4916</b>

#### 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	0.0216	0.1339	0.3682	3.0000e-004	9.1600e-003	1.7800e-003	0.0109	2.6100e-003	1.6400e-003	4.2500e-003	0.0000	26.8511	26.8511	2.1000e-004	0.0000	26.8556
Worker	0.0373	0.0440	0.4533	1.0000e-003	0.0822	6.6000e-004	0.0829	0.0219	6.1000e-004	0.0225	0.0000	71.8380	71.8380	3.7300e-003	0.0000	71.9163
<b>Total</b>	<b>0.0590</b>	<b>0.1779</b>	<b>0.8216</b>	<b>1.3000e-003</b>	<b>0.0914</b>	<b>2.4400e-003</b>	<b>0.0938</b>	<b>0.0245</b>	<b>2.2500e-003</b>	<b>0.0267</b>	<b>0.0000</b>	<b>98.6892</b>	<b>98.6892</b>	<b>3.9400e-003</b>	<b>0.0000</b>	<b>98.7719</b>

**3.4 Building Construction - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0391	0.2466	0.2289	3.0000e-004		0.0178	0.0178		0.0168	0.0168	0.0000	25.6321	25.6321	6.8800e-003	0.0000	25.7765
<b>Total</b>	<b>0.0391</b>	<b>0.2466</b>	<b>0.2289</b>	<b>3.0000e-004</b>		<b>0.0178</b>	<b>0.0178</b>		<b>0.0168</b>	<b>0.0168</b>	<b>0.0000</b>	<b>25.6321</b>	<b>25.6321</b>	<b>6.8800e-003</b>	<b>0.0000</b>	<b>25.7765</b>

**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	7.9100e-003	0.0521	0.1426	1.3000e-004	3.8200e-003	6.3000e-004	4.4500e-003	1.0900e-003	5.8000e-004	1.6700e-003	0.0000	11.0758	11.0758	8.0000e-005	0.0000	11.0776
Worker	0.0136	0.0164	0.1669	4.2000e-004	0.0343	2.7000e-004	0.0346	9.1300e-003	2.5000e-004	9.3700e-003	0.0000	28.8225	28.8225	1.4200e-003	0.0000	28.8523
<b>Total</b>	<b>0.0215</b>	<b>0.0684</b>	<b>0.3095</b>	<b>5.5000e-004</b>	<b>0.0381</b>	<b>9.0000e-004</b>	<b>0.0390</b>	<b>0.0102</b>	<b>8.3000e-004</b>	<b>0.0110</b>	<b>0.0000</b>	<b>39.8984</b>	<b>39.8984</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>39.9299</b>

### 3.4 Building Construction - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3500e-003	0.0587	0.2092	3.0000e-004		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	25.6321	25.6321	6.8800e-003	0.0000	25.7765
<b>Total</b>	<b>4.3500e-003</b>	<b>0.0587</b>	<b>0.2092</b>	<b>3.0000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>25.6321</b>	<b>25.6321</b>	<b>6.8800e-003</b>	<b>0.0000</b>	<b>25.7765</b>

#### 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	7.9100e-003	0.0521	0.1426	1.3000e-004	3.8200e-003	6.3000e-004	4.4500e-003	1.0900e-003	5.8000e-004	1.6700e-003	0.0000	11.0758	11.0758	8.0000e-005	0.0000	11.0776
Worker	0.0136	0.0164	0.1669	4.2000e-004	0.0343	2.7000e-004	0.0346	9.1300e-003	2.5000e-004	9.3700e-003	0.0000	28.8225	28.8225	1.4200e-003	0.0000	28.8523
<b>Total</b>	<b>0.0215</b>	<b>0.0684</b>	<b>0.3095</b>	<b>5.5000e-004</b>	<b>0.0381</b>	<b>9.0000e-004</b>	<b>0.0390</b>	<b>0.0102</b>	<b>8.3000e-004</b>	<b>0.0110</b>	<b>0.0000</b>	<b>39.8984</b>	<b>39.8984</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>39.9299</b>

### 3.5 Building Construction - generator powered - 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	2.0000e-003	0.0156	0.0132	2.0000e-005		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	1.9782	1.9782	1.6000e-004	0.0000	1.9816
<b>Total</b>	<b>2.0000e-003</b>	<b>0.0156</b>	<b>0.0132</b>	<b>2.0000e-005</b>		<b>1.0500e-003</b>	<b>1.0500e-003</b>		<b>1.0500e-003</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>1.9782</b>	<b>1.9782</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.9816</b>

#### 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	6.4000e-004	3.9900e-003	0.0110	1.0000e-005	2.7000e-004	5.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.7998	0.7998	1.0000e-005	0.0000	0.8000
Worker	1.1100e-003	1.3100e-003	0.0135	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.1399	2.1399	1.1000e-004	0.0000	2.1422
<b>Total</b>	<b>1.7500e-003</b>	<b>5.3000e-003</b>	<b>0.0245</b>	<b>4.0000e-005</b>	<b>2.7200e-003</b>	<b>7.0000e-005</b>	<b>2.8000e-003</b>	<b>7.3000e-004</b>	<b>7.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.9397</b>	<b>2.9397</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.9422</b>

### 3.5 Building Construction - generator powered - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3000e-004	1.0000e-003	0.0142	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.9782	1.9782	1.6000e-004	0.0000	1.9816
<b>Total</b>	<b>2.3000e-004</b>	<b>1.0000e-003</b>	<b>0.0142</b>	<b>2.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.9782</b>	<b>1.9782</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.9816</b>

#### 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	6.4000e-004	3.9900e-003	0.0110	1.0000e-005	2.7000e-004	5.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.7998	0.7998	1.0000e-005	0.0000	0.8000
Worker	1.1100e-003	1.3100e-003	0.0135	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.1399	2.1399	1.1000e-004	0.0000	2.1422
<b>Total</b>	<b>1.7500e-003</b>	<b>5.3000e-003</b>	<b>0.0245</b>	<b>4.0000e-005</b>	<b>2.7200e-003</b>	<b>7.0000e-005</b>	<b>2.8000e-003</b>	<b>7.3000e-004</b>	<b>7.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.9397</b>	<b>2.9397</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.9422</b>

### 3.6 Building Construction - HVAC - 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	2.2700e-003	0.0269	9.6500e-003	2.0000e-005		1.2000e-003	1.2000e-003		1.1000e-003	1.1000e-003	0.0000	1.8328	1.8328	5.6000e-004	0.0000	1.8446
<b>Total</b>	<b>2.2700e-003</b>	<b>0.0269</b>	<b>9.6500e-003</b>	<b>2.0000e-005</b>		<b>1.2000e-003</b>	<b>1.2000e-003</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>1.8328</b>	<b>1.8328</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.8446</b>

#### 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	6.4000e-004	3.9900e-003	0.0110	1.0000e-005	2.7000e-004	5.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.7998	0.7998	1.0000e-005	0.0000	0.8000
Worker	1.1100e-003	1.3100e-003	0.0135	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.1399	2.1399	1.1000e-004	0.0000	2.1422
<b>Total</b>	<b>1.7500e-003</b>	<b>5.3000e-003</b>	<b>0.0245</b>	<b>4.0000e-005</b>	<b>2.7200e-003</b>	<b>7.0000e-005</b>	<b>2.8000e-003</b>	<b>7.3000e-004</b>	<b>7.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.9397</b>	<b>2.9397</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.9422</b>

### 3.6 Building Construction - HVAC - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4000e-004	1.0500e-003	8.9000e-003	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.8328	1.8328	5.6000e-004	0.0000	1.8446
<b>Total</b>	<b>2.4000e-004</b>	<b>1.0500e-003</b>	<b>8.9000e-003</b>	<b>2.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.8328</b>	<b>1.8328</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.8446</b>

#### 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	6.4000e-004	3.9900e-003	0.0110	1.0000e-005	2.7000e-004	5.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.7998	0.7998	1.0000e-005	0.0000	0.8000
Worker	1.1100e-003	1.3100e-003	0.0135	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.1399	2.1399	1.1000e-004	0.0000	2.1422
<b>Total</b>	<b>1.7500e-003</b>	<b>5.3000e-003</b>	<b>0.0245</b>	<b>4.0000e-005</b>	<b>2.7200e-003</b>	<b>7.0000e-005</b>	<b>2.8000e-003</b>	<b>7.3000e-004</b>	<b>7.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.9397</b>	<b>2.9397</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.9422</b>

### 3.7 Paving - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.7200e-003	0.0985	0.0828	1.2000e-004		5.8900e-003	5.8900e-003		5.4300e-003	5.4300e-003	0.0000	11.1120	11.1120	3.3900e-003	0.0000	11.1832
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.7200e-003</b>	<b>0.0985</b>	<b>0.0828</b>	<b>1.2000e-004</b>		<b>5.8900e-003</b>	<b>5.8900e-003</b>		<b>5.4300e-003</b>	<b>5.4300e-003</b>	<b>0.0000</b>	<b>11.1120</b>	<b>11.1120</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>11.1832</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	3.6000e-004	3.7200e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6434	0.6434	3.0000e-005	0.0000	0.6440
<b>Total</b>	<b>3.0000e-004</b>	<b>3.6000e-004</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6434</b>	<b>0.6434</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6440</b>

### 3.7 Paving - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4500e-003	6.2900e-003	0.0895	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	11.1119	11.1119	3.3900e-003	0.0000	11.1832
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.4500e-003</b>	<b>6.2900e-003</b>	<b>0.0895</b>	<b>1.2000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>11.1119</b>	<b>11.1119</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>11.1832</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	3.6000e-004	3.7200e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6434	0.6434	3.0000e-005	0.0000	0.6440
<b>Total</b>	<b>3.0000e-004</b>	<b>3.6000e-004</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6434</b>	<b>0.6434</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6440</b>

### 3.8 Architectural Coating - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7522					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0900e-003	0.0140	0.0130	2.0000e-005		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	1.7873	1.7873	1.7000e-004	0.0000	1.7909
<b>Total</b>	<b>0.7543</b>	<b>0.0140</b>	<b>0.0130</b>	<b>2.0000e-005</b>		<b>1.0500e-003</b>	<b>1.0500e-003</b>		<b>1.0500e-003</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>1.7873</b>	<b>1.7873</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7909</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	4.6000e-004	4.7200e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8149	0.8149	4.0000e-005	0.0000	0.8158
<b>Total</b>	<b>3.8000e-004</b>	<b>4.6000e-004</b>	<b>4.7200e-003</b>	<b>1.0000e-005</b>	<b>9.7000e-004</b>	<b>1.0000e-005</b>	<b>9.8000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8149</b>	<b>0.8149</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.8158</b>

### 3.8 Architectural Coating - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7522					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	9.0000e-004	0.0128	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.7873	1.7873	1.7000e-004	0.0000	1.7909
<b>Total</b>	<b>0.7524</b>	<b>9.0000e-004</b>	<b>0.0128</b>	<b>2.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.7873</b>	<b>1.7873</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7909</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	4.6000e-004	4.7200e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8149	0.8149	4.0000e-005	0.0000	0.8158
<b>Total</b>	<b>3.8000e-004</b>	<b>4.6000e-004</b>	<b>4.7200e-003</b>	<b>1.0000e-005</b>	<b>9.7000e-004</b>	<b>1.0000e-005</b>	<b>9.8000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8149</b>	<b>0.8149</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.8158</b>

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

- Increase Density
- Increase Transit Accessibility
- Improve Pedestrian Network
- Employee Vanpool/Shuttle

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2130	0.4533	2.0681	4.7600e-003	0.3398	5.7300e-003	0.3455	0.0910	5.2800e-003	0.0963	0.0000	348.7406	348.7406	0.0150	0.0000	349.0554
Unmitigated	0.2193	0.4895	2.2089	5.1700e-003	0.3706	6.2100e-003	0.3768	0.0992	5.7200e-003	0.1050	0.0000	379.4801	379.4801	0.0162	0.0000	379.8201

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	367.16	294.80	326.96	1,005,684	922,061
Total	367.16	294.80	326.96	1,005,684	922,061

### 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
Congregate Care (Assisted Living)	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.456845	0.078463	0.189736	0.161142	0.074925	0.010638	0.010772	0.000982	0.001366	0.000775	0.008718	0.000744	0.004895

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
NaturalGas Mitigated	2.6600e-003	0.0227	9.6700e-003	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.3275	26.3275	5.0000e-004	4.8000e-004	26.4877
NaturalGas Unmitigated	3.1500e-003	0.0269	0.0114	1.7000e-004		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	31.1418	31.1418	6.0000e-004	5.7000e-004	31.3313
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	96.5232	96.5232	4.3600e-003	9.0000e-004	96.8948
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	137.2756	137.2756	6.2100e-003	1.2800e-003	137.8041

**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					
Congregate Care (Assisted Living)	583575	3.1500e-003	0.0269	0.0114	1.7000e-004		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	31.1418	31.1418	6.0000e-004	5.7000e-004	31.3313
<b>Total</b>		<b>3.1500e-003</b>	<b>0.0269</b>	<b>0.0114</b>	<b>1.7000e-004</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>31.1418</b>	<b>31.1418</b>	<b>6.0000e-004</b>	<b>5.7000e-004</b>	<b>31.3313</b>

**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					
Congregate Care (Assisted Living)	493359	2.6600e-003	0.0227	9.6700e-003	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.3275	26.3275	5.0000e-004	4.8000e-004	26.4877
<b>Total</b>		<b>2.6600e-003</b>	<b>0.0227</b>	<b>9.6700e-003</b>	<b>1.5000e-004</b>		<b>1.8400e-003</b>	<b>1.8400e-003</b>		<b>1.8400e-003</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>26.3275</b>	<b>26.3275</b>	<b>5.0000e-004</b>	<b>4.8000e-004</b>	<b>26.4877</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	471881	137.2756	6.2100e-003	1.2800e-003	137.8041
<b>Total</b>		<b>137.2756</b>	<b>6.2100e-003</b>	<b>1.2800e-003</b>	<b>137.8041</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	331796	96.5232	4.3600e-003	9.0000e-004	96.8948
<b>Total</b>		<b>96.5232</b>	<b>4.3600e-003</b>	<b>9.0000e-004</b>	<b>96.8948</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Electric Chainsaw
- 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
- Use Electric Lawnmower
- Use Electric Leafblower

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5134	2.0400e-003	0.1694	1.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	0.2539	0.2539	1.9000e-004	0.0000	0.2580
Unmitigated	0.6644	2.5800e-003	0.2227	1.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	0.3612	0.3612	3.6000e-004	0.0000	0.3687

### 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	0.1881					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4695					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	6.8600e-003	2.5800e-003	0.2227	1.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	0.3612	0.3612	3.6000e-004	0.0000	0.3687
<b>Total</b>	<b>0.6644</b>	<b>2.5800e-003</b>	<b>0.2227</b>	<b>1.0000e-005</b>		<b>1.2200e-003</b>	<b>1.2200e-003</b>		<b>1.2200e-003</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>0.3612</b>	<b>0.3612</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.3687</b>

## 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					
Consumer Products	0.4344					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	3.7700e-003	2.0400e-003	0.1694	1.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	0.2539	0.2539	1.9000e-004	0.0000	0.2580
Architectural Coating	0.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.5134</b>	<b>2.0400e-003</b>	<b>0.1694</b>	<b>1.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>0.2539</b>	<b>0.2539</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.2580</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

- Use Reclaimed Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Turf Reduction
- Use Water Efficient Irrigation System
- Use Water Efficient Landscaping

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	22.1171	0.2854	6.9000e-003	30.2483
Mitigated	15.5832	0.2282	5.4900e-003	22.0764

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	8.73064 / 5.5041	22.1171	0.2854	6.9000e-003	30.2483
<b>Total</b>		<b>22.1171</b>	<b>0.2854</b>	<b>6.9000e-003</b>	<b>30.2483</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	6.98451 / 2.33044	15.5832	0.2282	5.4900e-003	22.0764
<b>Total</b>		<b>15.5832</b>	<b>0.2282</b>	<b>5.4900e-003</b>	<b>22.0764</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.6148	1.1001	0.0000	41.7169
Unmitigated	24.8197	1.4668	0.0000	55.6226

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	122.27	24.8197	1.4668	0.0000	55.6226
<b>Total</b>		<b>24.8197</b>	<b>1.4668</b>	<b>0.0000</b>	<b>55.6226</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	91.7025	18.6148	1.1001	0.0000	41.7169
<b>Total</b>		<b>18.6148</b>	<b>1.1001</b>	<b>0.0000</b>	<b>41.7169</b>

## 9.0 Operational Offroad

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

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	54.3920	0.0000	0.0000	54.3920

## 10.1 Vegetation Land Change

### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	2 / 0	-8.6200	0.0000	0.0000	-8.6200
<b>Total</b>		<b>-8.6200</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-8.6200</b>

**10.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	89	63.0120	0.0000	0.0000	63.0120
<b>Total</b>		<b>63.0120</b>	<b>0.0000</b>	<b>0.0000</b>	<b>63.0120</b>

**Westmont Assisted Living 2**  
**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	134.00	Dwelling Unit	4.07	120,213.00	149

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2018
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

## Project Characteristics -

Land Use - Acreage provided by applicant. Population est. by no. of unit types

Construction Phase - Const duration 3/1/17 - 4/30/18

Bldng construction - HVAC = 1 crane, 1 week.

Construction days overlap. Total no. of days ~ 361: 259 in 2017, 102 in 2018

No work 11/23/17, 11/24/17, 12/26/17, 1/1/17

## Off-road Equipment -

Off-road Equipment - Values provided by applicant.  
Structure is wood-framed.

Off-road Equipment - Generator set used for 1st week of construction.

Off-road Equipment - Cranes used for 1 week to install roof-mount HVAC.

Off-road Equipment - Values provided by applicant

Off-road Equipment - Values provided by applicant

Off-road Equipment - Crane used for 1 week in construction phase. Gen set used 1 week in construction.

Grading - Values provided by applicant

Woodstoves - No fireplaces or wood stoves.

Landscape Equipment - No turf = no lawnmowing. Equipt likely limited to blowers.

## Energy Use -

Land Use Change - Annual "grassland" occupies only part of site.

## Sequestration -

Construction Off-road Equipment Mitigation - All exposed ground will be covered at end of construction by pavement, buildings, or 43,000 ft<sup>2</sup> +/- of landscaping. If necessary to mitigate all equipt will use Tier 4 engines.

Mobile Land Use Mitigation - Project is within 2 miles of transit center & retail (CVS, Target, Nugget, theater, services)

Mobile Commute Mitigation - Van for residents will substitute for individual vehicles. Mode share is estimated.

Area Mitigation - No lawnmowers would be used.

Attempt for 50% electric leafblowers. No chainsaws.

Energy Mitigation - Amounts estimated.

Water Mitigation - No turf specified in landscape.

## Waste Mitigation -

Trips and VMT - Assume 20-yd capacity trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblCommuteMitigation	EmployeeVanpoolPercentModeShare	2	10
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	230.00	333.00
tblConstructionPhase	NumDays	230.00	7.00
tblConstructionPhase	NumDays	230.00	7.00
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	4/23/2018	4/17/2018
tblConstructionPhase	PhaseEndDate	5/2/2018	4/8/2017
tblConstructionPhase	PhaseEndDate	4/17/2017	10/9/2017
tblConstructionPhase	PhaseEndDate	4/1/2017	3/31/2017

tblConstructionPhase	PhaseEndDate	10/25/2017	4/6/2018
tblConstructionPhase	PhaseStartDate	4/7/2018	4/2/2018
tblConstructionPhase	PhaseStartDate	4/25/2018	4/1/2017
tblConstructionPhase	PhaseStartDate	4/9/2017	10/2/2017
tblConstructionPhase	PhaseStartDate	3/9/2017	3/8/2017
tblConstructionPhase	PhaseStartDate	10/10/2017	3/22/2018
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	73.70	0.00
tblFireplaces	NumberNoFireplace	13.40	134.00
tblFireplaces	NumberWood	46.90	0.00
tblGrading	AcresOfGrading	10.50	4.00
tblGrading	AcresOfGrading	10.50	0.00
tblGrading	MaterialExported	0.00	1,000.00
tblLandscapeEquipment	NumberSummerDays	180	40
tblLandUse	LandUseSquareFeet	134,000.00	120,213.00
tblLandUse	LotAcreage	8.38	4.07
tblLandUse	Population	383.00	149.00
tblOffRoadEquipment	HorsePower	174.00	255.00
tblOffRoadEquipment	LoadFactor	0.41	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Graders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSequestration	NumberOfNewTrees	0.00	89.00
tblTripsAndVMT	HaulingTripNumber	125.00	100.00
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50

tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentageReduction	6.1	30
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00

## 2.0 Emissions Summary

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**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					
2017	8.6478	94.2573	68.0537	0.0781	24.5133	4.5114	29.0246	13.3215	4.1505	17.4720	0.0000	7,937.3869	7,937.3869	2.3164	0.0000	7,986.0310
2018	110.5273	22.5024	25.7008	0.0420	1.0698	1.3757	2.4455	0.2853	1.2880	1.5733	0.0000	3,819.9776	3,819.9776	0.7608	0.0000	3,835.9537
<b>Total</b>	<b>119.1751</b>	<b>116.7597</b>	<b>93.7545</b>	<b>0.1201</b>	<b>25.5830</b>	<b>5.8871</b>	<b>31.4701</b>	<b>13.6068</b>	<b>5.4384</b>	<b>19.0452</b>	<b>0.0000</b>	<b>11,757.3645</b>	<b>11,757.3645</b>	<b>3.0772</b>	<b>0.0000</b>	<b>11,821.9846</b>

**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					
2017	4.3474	43.2050	59.1636	0.0781	1.6222	1.9272	2.1431	0.4334	1.7791	1.8368	0.0000	7,937.3869	7,937.3869	2.3164	0.0000	7,986.0310
2018	108.3689	3.6184	26.2393	0.0420	1.0698	0.0608	1.1306	0.2853	0.0592	0.3445	0.0000	3,819.9776	3,819.9776	0.7608	0.0000	3,835.9537
<b>Total</b>	<b>112.7164</b>	<b>46.8234</b>	<b>85.4029</b>	<b>0.1201</b>	<b>2.6920</b>	<b>1.9879</b>	<b>3.2736</b>	<b>0.7187</b>	<b>1.8383</b>	<b>2.1813</b>	<b>0.0000</b>	<b>11,757.3645</b>	<b>11,757.3645</b>	<b>3.0772</b>	<b>0.0000</b>	<b>11,821.9846</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>5.42</b>	<b>59.90</b>	<b>8.91</b>	<b>0.00</b>	<b>89.48</b>	<b>66.23</b>	<b>89.60</b>	<b>94.72</b>	<b>66.20</b>	<b>88.55</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**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	3.9462	0.1292	11.1334	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9060	19.9060	0.0197	0.0000	20.3203
Energy	0.0172	0.1473	0.0627	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.0984	188.0984	3.6100e-003	3.4500e-003	189.2432
Mobile	1.4107	2.5764	13.2022	0.0321	2.2211	0.0357	2.2568	0.5927	0.0329	0.6256		2,588.2518	2,588.2518	0.1027		2,590.4079
<b>Total</b>	<b>5.3741</b>	<b>2.8529</b>	<b>24.3982</b>	<b>0.0336</b>	<b>2.2211</b>	<b>0.1084</b>	<b>2.3295</b>	<b>0.5927</b>	<b>0.1055</b>	<b>0.6983</b>	<b>0.0000</b>	<b>2,796.2562</b>	<b>2,796.2562</b>	<b>0.1260</b>	<b>3.4500e-003</b>	<b>2,799.9713</b>

**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	2.9807	0.1018	8.4721	3.8000e-004		0.0451	0.0451		0.0451	0.0451	0.0000	13.9960	13.9960	0.0107	0.0000	14.2211
Energy	0.0146	0.1246	0.0530	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.0197	159.0197	3.0500e-003	2.9200e-003	159.9874
Mobile	1.3732	2.3861	12.2675	0.0295	2.0364	0.0330	2.0694	0.5435	0.0304	0.5738		2,378.2345	2,378.2345	0.0950		2,380.2305
<b>Total</b>	<b>4.3685</b>	<b>2.6124</b>	<b>20.7926</b>	<b>0.0307</b>	<b>2.0364</b>	<b>0.0882</b>	<b>2.1246</b>	<b>0.5435</b>	<b>0.0856</b>	<b>0.6290</b>	<b>0.0000</b>	<b>2,551.2502</b>	<b>2,551.2502</b>	<b>0.1088</b>	<b>2.9200e-003</b>	<b>2,554.4390</b>

	ROG	NOx	CO	SO2	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	18.71	8.43	14.78	8.77	8.31	18.64	8.80	8.32	18.94	9.92	0.00	8.76	8.76	13.65	15.36	8.77

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2017	3/8/2017	6	7	Rough grading
2	Grading	Grading	3/8/2017	3/31/2017	6	21	Finish grading
3	Building Construction	Building Construction	4/1/2017	4/24/2018	6	333	Framing, finish construction
4	Building Construction - generator powered	Building Construction	4/1/2017	4/8/2017	6	7	1st week before power hookup
5	Building Construction - HVAC	Building Construction	10/2/2017	10/9/2017	6	7	Install HVAC w/crane
6	Paving	Paving	3/22/2018	4/6/2018	6	14	
7	Architectural Coating	Architectural Coating	4/2/2018	4/17/2018	6	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 243,431; Residential Outdoor: 81,144; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Site Preparation	Graders	1	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41

Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	0	7.00	226	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Building Construction - generator powered	Cranes	0	7.00	226	0.29
Building Construction - generator powered	Forklifts	0	8.00	89	0.20
Building Construction - generator powered	Generator Sets	1	8.00	84	0.74
Building Construction - generator powered	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction - generator powered	Welders	0	8.00	46	0.45
Building Construction - HVAC	Cranes	1	8.00	226	0.29
Building Construction - HVAC	Forklifts	0	8.00	89	0.20
Building Construction - HVAC	Generator Sets	0	8.00	84	0.74
Building Construction - HVAC	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction - HVAC	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40

**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
Site Preparation	6	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - generator powered	1	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - HVAC	1	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.7485	64.9588	45.1863	0.0531		2.9443	2.9443		2.7088	2.7088		5,428.8275	5,428.8275	1.6634		5,463.7586
<b>Total</b>	<b>5.7485</b>	<b>64.9588</b>	<b>45.1863</b>	<b>0.0531</b>	<b>18.0663</b>	<b>2.9443</b>	<b>21.0106</b>	<b>9.9307</b>	<b>2.7088</b>	<b>12.6395</b>		<b>5,428.8275</b>	<b>5,428.8275</b>	<b>1.6634</b>		<b>5,463.7586</b>

**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	0.0309	0.0272	0.3512	7.8000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		61.5150	61.5150	2.9100e-003		61.5761
<b>Total</b>	<b>0.0309</b>	<b>0.0272</b>	<b>0.3512</b>	<b>7.8000e-004</b>	<b>0.0609</b>	<b>4.7000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>4.3000e-004</b>	<b>0.0166</b>		<b>61.5150</b>	<b>61.5150</b>	<b>2.9100e-003</b>		<b>61.5761</b>

**3.2 Site Preparation - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.0838	31.4406	38.0651	0.0531		1.4330	1.4330		1.3227	1.3227	0.0000	5,428.8275	5,428.8275	1.6634		5,463.7586
<b>Total</b>	<b>3.0838</b>	<b>31.4406</b>	<b>38.0651</b>	<b>0.0531</b>	<b>0.0000</b>	<b>1.4330</b>	<b>1.4330</b>	<b>0.0000</b>	<b>1.3227</b>	<b>1.3227</b>	<b>0.0000</b>	<b>5,428.8275</b>	<b>5,428.8275</b>	<b>1.6634</b>		<b>5,463.7586</b>

**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	0.0309	0.0272	0.3512	7.8000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		61.5150	61.5150	2.9100e-003		61.5761
<b>Total</b>	<b>0.0309</b>	<b>0.0272</b>	<b>0.3512</b>	<b>7.8000e-004</b>	<b>0.0609</b>	<b>4.7000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>4.3000e-004</b>	<b>0.0166</b>		<b>61.5150</b>	<b>61.5150</b>	<b>2.9100e-003</b>		<b>61.5761</b>

**3.3 Grading - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2311	0.0000	6.2311	3.3331	0.0000	3.3331			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306		2,104.5737	2,104.5737	0.6448		2,118.1153
<b>Total</b>	<b>2.6973</b>	<b>28.1608</b>	<b>18.9679</b>	<b>0.0206</b>	<b>6.2311</b>	<b>1.5550</b>	<b>7.7861</b>	<b>3.3331</b>	<b>1.4306</b>	<b>4.7637</b>		<b>2,104.5737</b>	<b>2,104.5737</b>	<b>0.6448</b>		<b>2,118.1153</b>

**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	0.1325	1.0766	3.1094	2.7400e-003	0.0790	0.0110	0.0899	0.0214	0.0101	0.0315		265.5770	265.5770	1.6100e-003		265.6108
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	0.0386	0.0340	0.4390	9.7000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		76.8937	76.8937	3.6400e-003		76.9702
<b>Total</b>	<b>0.1711</b>	<b>1.1106</b>	<b>3.5484</b>	<b>3.7100e-003</b>	<b>0.1550</b>	<b>0.0116</b>	<b>0.1666</b>	<b>0.0416</b>	<b>0.0106</b>	<b>0.0522</b>		<b>342.4707</b>	<b>342.4707</b>	<b>5.2500e-003</b>		<b>342.5810</b>

### 3.3 Grading - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0617	10.6266	17.1989	0.0206		0.4822	0.4822		0.4454	0.4454	0.0000	2,104.5737	2,104.5737	0.6448		2,118.1153
<b>Total</b>	<b>1.0617</b>	<b>10.6266</b>	<b>17.1989</b>	<b>0.0206</b>	<b>0.0000</b>	<b>0.4822</b>	<b>0.4822</b>	<b>0.0000</b>	<b>0.4454</b>	<b>0.4454</b>	<b>0.0000</b>	<b>2,104.5737</b>	<b>2,104.5737</b>	<b>0.6448</b>		<b>2,118.1153</b>

#### 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	0.1325	1.0766	3.1094	2.7400e-003	0.0790	0.0110	0.0899	0.0214	0.0101	0.0315		265.5770	265.5770	1.6100e-003		265.6108
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	0.0386	0.0340	0.4390	9.7000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		76.8937	76.8937	3.6400e-003		76.9702
<b>Total</b>	<b>0.1711</b>	<b>1.1106</b>	<b>3.5484</b>	<b>3.7100e-003</b>	<b>0.1550</b>	<b>0.0116</b>	<b>0.1666</b>	<b>0.0416</b>	<b>0.0106</b>	<b>0.0522</b>		<b>342.4707</b>	<b>342.4707</b>	<b>5.2500e-003</b>		<b>342.5810</b>

### 3.4 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	0.9231	5.6217	4.8010	6.2200e-003		0.4313	0.4313		0.4070	0.4070		582.8994	582.8994	0.1599		586.2580
<b>Total</b>	<b>0.9231</b>	<b>5.6217</b>	<b>4.8010</b>	<b>6.2200e-003</b>		<b>0.4313</b>	<b>0.4313</b>		<b>0.4070</b>	<b>0.4070</b>		<b>582.8994</b>	<b>582.8994</b>	<b>0.1599</b>		<b>586.2580</b>

#### 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	0.1629	1.0697	2.4891	2.6000e-003	0.0808	0.0150	0.0958	0.0230	0.0138	0.0368		252.9534	252.9534	1.9800e-003		252.9950
Worker	0.3705	0.3264	4.2143	9.3400e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		738.1795	738.1795	0.0350		738.9135
<b>Total</b>	<b>0.5334</b>	<b>1.3961</b>	<b>6.7034</b>	<b>0.0119</b>	<b>0.8111</b>	<b>0.0207</b>	<b>0.8318</b>	<b>0.2167</b>	<b>0.0190</b>	<b>0.2357</b>		<b>991.1329</b>	<b>991.1329</b>	<b>0.0369</b>		<b>991.9085</b>

### 3.4 Building Construction - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0888	1.1988	4.2698	6.2200e-003		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.0000	582.8994	582.8994	0.1599		586.2580
<b>Total</b>	<b>0.0888</b>	<b>1.1988</b>	<b>4.2698</b>	<b>6.2200e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>582.8994</b>	<b>582.8994</b>	<b>0.1599</b>		<b>586.2580</b>

#### 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	0.1629	1.0697	2.4891	2.6000e-003	0.0808	0.0150	0.0958	0.0230	0.0138	0.0368		252.9534	252.9534	1.9800e-003		252.9950
Worker	0.3705	0.3264	4.2143	9.3400e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		738.1795	738.1795	0.0350		738.9135
<b>Total</b>	<b>0.5334</b>	<b>1.3961</b>	<b>6.7034</b>	<b>0.0119</b>	<b>0.8111</b>	<b>0.0207</b>	<b>0.8318</b>	<b>0.2167</b>	<b>0.0190</b>	<b>0.2357</b>		<b>991.1329</b>	<b>991.1329</b>	<b>0.0369</b>		<b>991.9085</b>

### 3.4 Building Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7972	5.0319	4.6714	6.2200e-003		0.3632	0.3632		0.3432	0.3432		576.6238	576.6238	0.1547		579.8728
<b>Total</b>	<b>0.7972</b>	<b>5.0319</b>	<b>4.6714</b>	<b>6.2200e-003</b>		<b>0.3632</b>	<b>0.3632</b>		<b>0.3432</b>	<b>0.3432</b>		<b>576.6238</b>	<b>576.6238</b>	<b>0.1547</b>		<b>579.8728</b>

#### 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	0.1435	0.9979	2.2771	2.6000e-003	0.0809	0.0128	0.0937	0.0230	0.0118	0.0348		250.2019	250.2019	1.8500e-003		250.2408
Worker	0.3264	0.2910	3.7443	9.3300e-003	0.7303	5.4600e-003	0.7357	0.1937	5.0400e-003	0.1988		710.3040	710.3040	0.0319		710.9738
<b>Total</b>	<b>0.4699</b>	<b>1.2889</b>	<b>6.0213</b>	<b>0.0119</b>	<b>0.8112</b>	<b>0.0183</b>	<b>0.8295</b>	<b>0.2167</b>	<b>0.0168</b>	<b>0.2336</b>		<b>960.5059</b>	<b>960.5059</b>	<b>0.0337</b>		<b>961.2145</b>

### 3.4 Building Construction - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0888	1.1988	4.2698	6.2200e-003		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.0000	576.6238	576.6238	0.1547		579.8728
<b>Total</b>	<b>0.0888</b>	<b>1.1988</b>	<b>4.2698</b>	<b>6.2200e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>576.6238</b>	<b>576.6238</b>	<b>0.1547</b>		<b>579.8728</b>

#### 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	0.1435	0.9979	2.2771	2.6000e-003	0.0809	0.0128	0.0937	0.0230	0.0118	0.0348		250.2019	250.2019	1.8500e-003		250.2408
Worker	0.3264	0.2910	3.7443	9.3300e-003	0.7303	5.4600e-003	0.7357	0.1937	5.0400e-003	0.1988		710.3040	710.3040	0.0319		710.9738
<b>Total</b>	<b>0.4699</b>	<b>1.2889</b>	<b>6.0213</b>	<b>0.0119</b>	<b>0.8112</b>	<b>0.0183</b>	<b>0.8295</b>	<b>0.2167</b>	<b>0.0168</b>	<b>0.2336</b>		<b>960.5059</b>	<b>960.5059</b>	<b>0.0337</b>		<b>961.2145</b>

### 3.5 Building Construction - generator powered - 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	0.5701	4.4642	3.7735	6.5800e-003		0.3004	0.3004		0.3004	0.3004		623.0346	623.0346	0.0504			624.0936
<b>Total</b>	<b>0.5701</b>	<b>4.4642</b>	<b>3.7735</b>	<b>6.5800e-003</b>		<b>0.3004</b>	<b>0.3004</b>		<b>0.3004</b>	<b>0.3004</b>		<b>623.0346</b>	<b>623.0346</b>	<b>0.0504</b>			<b>624.0936</b>

#### 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	0.1629	1.0697	2.4891	2.6000e-003	0.0808	0.0150	0.0958	0.0230	0.0138	0.0368		252.9534	252.9534	1.9800e-003			252.9950
Worker	0.3705	0.3264	4.2143	9.3400e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		738.1795	738.1795	0.0350			738.9135
<b>Total</b>	<b>0.5334</b>	<b>1.3961</b>	<b>6.7034</b>	<b>0.0119</b>	<b>0.8111</b>	<b>0.0207</b>	<b>0.8318</b>	<b>0.2167</b>	<b>0.0190</b>	<b>0.2357</b>		<b>991.1329</b>	<b>991.1329</b>	<b>0.0369</b>			<b>991.9085</b>

### 3.5 Building Construction - generator powered - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0658	0.2850	4.0564	6.5800e-003		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	623.0346	623.0346	0.0504		624.0936
<b>Total</b>	<b>0.0658</b>	<b>0.2850</b>	<b>4.0564</b>	<b>6.5800e-003</b>		<b>8.7700e-003</b>	<b>8.7700e-003</b>		<b>8.7700e-003</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>623.0346</b>	<b>623.0346</b>	<b>0.0504</b>		<b>624.0936</b>

#### 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	0.1629	1.0697	2.4891	2.6000e-003	0.0808	0.0150	0.0958	0.0230	0.0138	0.0368		252.9534	252.9534	1.9800e-003		252.9950
Worker	0.3705	0.3264	4.2143	9.3400e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		738.1795	738.1795	0.0350		738.9135
<b>Total</b>	<b>0.5334</b>	<b>1.3961</b>	<b>6.7034</b>	<b>0.0119</b>	<b>0.8111</b>	<b>0.0207</b>	<b>0.8318</b>	<b>0.2167</b>	<b>0.0190</b>	<b>0.2357</b>		<b>991.1329</b>	<b>991.1329</b>	<b>0.0369</b>		<b>991.9085</b>

### 3.6 Building Construction - HVAC - 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	0.6480	7.6930	2.7563	5.6400e-003		0.3430	0.3430		0.3155	0.3155		577.2380	577.2380	0.1769		580.9522
<b>Total</b>	<b>0.6480</b>	<b>7.6930</b>	<b>2.7563</b>	<b>5.6400e-003</b>		<b>0.3430</b>	<b>0.3430</b>		<b>0.3155</b>	<b>0.3155</b>		<b>577.2380</b>	<b>577.2380</b>	<b>0.1769</b>		<b>580.9522</b>

#### 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	0.1629	1.0697	2.4891	2.6000e-003	0.0808	0.0150	0.0958	0.0230	0.0138	0.0368		252.9534	252.9534	1.9800e-003		252.9950
Worker	0.3705	0.3264	4.2143	9.3400e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		738.1795	738.1795	0.0350		738.9135
<b>Total</b>	<b>0.5334</b>	<b>1.3961</b>	<b>6.7034</b>	<b>0.0119</b>	<b>0.8111</b>	<b>0.0207</b>	<b>0.8318</b>	<b>0.2167</b>	<b>0.0190</b>	<b>0.2357</b>		<b>991.1329</b>	<b>991.1329</b>	<b>0.0369</b>		<b>991.9085</b>

### 3.6 Building Construction - HVAC - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0694	0.3005	2.5430	5.6400e-003		9.2500e-003	9.2500e-003		9.2500e-003	9.2500e-003	0.0000	577.2380	577.2380	0.1769		580.9522
<b>Total</b>	<b>0.0694</b>	<b>0.3005</b>	<b>2.5430</b>	<b>5.6400e-003</b>		<b>9.2500e-003</b>	<b>9.2500e-003</b>		<b>9.2500e-003</b>	<b>9.2500e-003</b>	<b>0.0000</b>	<b>577.2380</b>	<b>577.2380</b>	<b>0.1769</b>		<b>580.9522</b>

#### 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	0.1629	1.0697	2.4891	2.6000e-003	0.0808	0.0150	0.0958	0.0230	0.0138	0.0368		252.9534	252.9534	1.9800e-003		252.9950
Worker	0.3705	0.3264	4.2143	9.3400e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		738.1795	738.1795	0.0350		738.9135
<b>Total</b>	<b>0.5334</b>	<b>1.3961</b>	<b>6.7034</b>	<b>0.0119</b>	<b>0.8111</b>	<b>0.0207</b>	<b>0.8318</b>	<b>0.2167</b>	<b>0.0190</b>	<b>0.2357</b>		<b>991.1329</b>	<b>991.1329</b>	<b>0.0369</b>		<b>991.9085</b>

### 3.7 Paving - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3885	14.0727	11.8278	0.0176		0.8417	0.8417		0.7755	0.7755		1,749.8334	1,749.8334	0.5343		1,761.0529
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3885</b>	<b>14.0727</b>	<b>11.8278</b>	<b>0.0176</b>		<b>0.8417</b>	<b>0.8417</b>		<b>0.7755</b>	<b>0.7755</b>		<b>1,749.8334</b>	<b>1,749.8334</b>	<b>0.5343</b>		<b>1,761.0529</b>

#### 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	0.0455	0.5850	1.4600e-003	0.1141	8.5000e-004	0.1150	0.0303	7.9000e-004	0.0311		110.9850	110.9850	4.9800e-003		111.0897
<b>Total</b>	<b>0.0510</b>	<b>0.0455</b>	<b>0.5850</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.5000e-004</b>	<b>0.1150</b>	<b>0.0303</b>	<b>7.9000e-004</b>	<b>0.0311</b>		<b>110.9850</b>	<b>110.9850</b>	<b>4.9800e-003</b>		<b>111.0897</b>

### 3.7 Paving - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2074	0.8987	12.7897	0.0176		0.0277	0.0277		0.0277	0.0277	0.0000	1,749.8334	1,749.8334	0.5343		1,761.0529
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2074</b>	<b>0.8987</b>	<b>12.7897</b>	<b>0.0176</b>		<b>0.0277</b>	<b>0.0277</b>		<b>0.0277</b>	<b>0.0277</b>	<b>0.0000</b>	<b>1,749.8334</b>	<b>1,749.8334</b>	<b>0.5343</b>		<b>1,761.0529</b>

#### 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	0.0455	0.5850	1.4600e-003	0.1141	8.5000e-004	0.1150	0.0303	7.9000e-004	0.0311		110.9850	110.9850	4.9800e-003		111.0897
<b>Total</b>	<b>0.0510</b>	<b>0.0455</b>	<b>0.5850</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.5000e-004</b>	<b>0.1150</b>	<b>0.0303</b>	<b>7.9000e-004</b>	<b>0.0311</b>		<b>110.9850</b>	<b>110.9850</b>	<b>4.9800e-003</b>		<b>111.0897</b>

### 3.8 Architectural Coating - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	107.4575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>107.7561</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

#### 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	0.0646	0.0576	0.7411	1.8500e-003	0.1445	1.0800e-003	0.1456	0.0383	1.0000e-003	0.0393		140.5810	140.5810	6.3100e-003		140.7136
<b>Total</b>	<b>0.0646</b>	<b>0.0576</b>	<b>0.7411</b>	<b>1.8500e-003</b>	<b>0.1445</b>	<b>1.0800e-003</b>	<b>0.1456</b>	<b>0.0383</b>	<b>1.0000e-003</b>	<b>0.0393</b>		<b>140.5810</b>	<b>140.5810</b>	<b>6.3100e-003</b>		<b>140.7136</b>

### 3.8 Architectural Coating - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4485	281.4485	0.0267		282.0102
Archit. Coating	107.4575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>107.4872</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

#### 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	0.0646	0.0576	0.7411	1.8500e-003	0.1445	1.0800e-003	0.1456	0.0383	1.0000e-003	0.0393		140.5810	140.5810	6.3100e-003		140.7136
<b>Total</b>	<b>0.0646</b>	<b>0.0576</b>	<b>0.7411</b>	<b>1.8500e-003</b>	<b>0.1445</b>	<b>1.0800e-003</b>	<b>0.1456</b>	<b>0.0383</b>	<b>1.0000e-003</b>	<b>0.0393</b>		<b>140.5810</b>	<b>140.5810</b>	<b>6.3100e-003</b>		<b>140.7136</b>

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

- Increase Density
- Increase Transit Accessibility
- Improve Pedestrian Network
- Employee Vanpool/Shuttle

	ROG	NOx	CO	SO2	Fugitive 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	1.3732	2.3861	12.2675	0.0295	2.0364	0.0330	2.0694	0.5435	0.0304	0.5738		2,378.2345	2,378.2345	0.0950		2,380.2305
Unmitigated	1.4107	2.5764	13.2022	0.0321	2.2211	0.0357	2.2568	0.5927	0.0329	0.6256		2,588.2518	2,588.2518	0.1027		2,590.4079

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	367.16	294.80	326.96	1,005,684	922,061
Total	367.16	294.80	326.96	1,005,684	922,061

### 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
Congregate Care (Assisted Living)	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.456845	0.078463	0.189736	0.161142	0.074925	0.010638	0.010772	0.000982	0.001366	0.000775	0.008718	0.000744	0.004895

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0146	0.1246	0.0530	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.0197	159.0197	3.0500e-003	2.9200e-003	159.9874
NaturalGas Unmitigated	0.0172	0.1473	0.0627	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.0984	188.0984	3.6100e-003	3.4500e-003	189.2432

### 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					
Congregate Care (Assisted Living)	1598.84	0.0172	0.1473	0.0627	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.0984	188.0984	3.6100e-003	3.4500e-003	189.2432
<b>Total</b>		<b>0.0172</b>	<b>0.1473</b>	<b>0.0627</b>	<b>9.4000e-004</b>		<b>0.0119</b>	<b>0.0119</b>		<b>0.0119</b>	<b>0.0119</b>		<b>188.0984</b>	<b>188.0984</b>	<b>3.6100e-003</b>	<b>3.4500e-003</b>	<b>189.2432</b>

#### 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					
Congregate Care (Assisted Living)	1.35167	0.0146	0.1246	0.0530	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.0197	159.0197	3.0500e-003	2.9200e-003	159.9874
<b>Total</b>		<b>0.0146</b>	<b>0.1246</b>	<b>0.0530</b>	<b>8.0000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>		<b>159.0197</b>	<b>159.0197</b>	<b>3.0500e-003</b>	<b>2.9200e-003</b>	<b>159.9874</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- 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	2.9807	0.1018	8.4721	3.8000e-004		0.0451	0.0451		0.0451	0.0451	0.0000	13.9960	13.9960	0.0107	0.0000	14.2211
Unmitigated	3.9462	0.1292	11.1334	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9060	19.9060	0.0197	0.0000	20.3203

### 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	1.0304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5726					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	0.3432	0.1292	11.1334	5.8000e-004		0.0608	0.0608		0.0608	0.0608		19.9060	19.9060	0.0197		20.3203
<b>Total</b>	<b>3.9462</b>	<b>0.1292</b>	<b>11.1334</b>	<b>5.8000e-004</b>		<b>0.0608</b>	<b>0.0608</b>		<b>0.0608</b>	<b>0.0608</b>	<b>0.0000</b>	<b>19.9060</b>	<b>19.9060</b>	<b>0.0197</b>	<b>0.0000</b>	<b>20.3203</b>

### 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	0.4122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3802					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	0.1883	0.1018	8.4721	3.8000e-004		0.0451	0.0451		0.0451	0.0451		13.9960	13.9960	0.0107		14.2211
<b>Total</b>	<b>2.9807</b>	<b>0.1018</b>	<b>8.4721</b>	<b>3.8000e-004</b>		<b>0.0451</b>	<b>0.0451</b>		<b>0.0451</b>	<b>0.0451</b>	<b>0.0000</b>	<b>13.9960</b>	<b>13.9960</b>	<b>0.0107</b>	<b>0.0000</b>	<b>14.2211</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

- Use Reclaimed Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Turf Reduction
- Use Water Efficient Irrigation System
- Use Water Efficient Landscaping

### 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

### 9.0 Operational Offroad

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

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**Westmont Assisted Living 2**  
**El Dorado-Mountain County County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	134.00	Dwelling Unit	4.07	120,213.00	149

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2018
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

## Project Characteristics -

Land Use - Acreage provided by applicant. Population est. by no. of unit types

Construction Phase - Const duration 3/1/17 - 4/30/18

Bldng construction - HVAC = 1 crane, 1 week.

Construction days overlap. Total no. of days ~ 361: 259 in 2017, 102 in 2018

No work 11/23/17, 11/24/17, 12/26/17, 1/1/17

## Off-road Equipment -

Off-road Equipment - Values provided by applicant.  
Structure is wood-framed.

Off-road Equipment - Generator set used for 1st week of construction.

Off-road Equipment - Cranes used for 1 week to install roof-mount HVAC.

Off-road Equipment - Values provided by applicant

Off-road Equipment - Values provided by applicant

Off-road Equipment - Crane used for 1 week in construction phase. Gen set used 1 week in construction.

Grading - Values provided by applicant

Woodstoves - No fireplaces or wood stoves.

Landscape Equipment - No turf = no lawnmowing. Equipt likely limited to blowers.

## Energy Use -

Land Use Change - Annual "grassland" occupies only part of site.

## Sequestration -

Construction Off-road Equipment Mitigation - All exposed ground will be covered at end of construction by pavement, buildings, or 43,000 ft<sup>2</sup> +/- of landscaping. If necessary to mitigate all equipt will use Tier 4 engines.

Mobile Land Use Mitigation - Project is within 2 miles of transit center & retail (CVS, Target, Nugget, theater, services)

Mobile Commute Mitigation - Van for residents will substitute for individual vehicles. Mode share is estimated.

Area Mitigation - No lawnmowers would be used.

Attempt for 50% electric leafblowers. No chainsaws.

Energy Mitigation - Amounts estimated.

Water Mitigation - No turf specified in landscape.

## Waste Mitigation -

Trips and VMT - Assume 20-yd capacity trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblCommuteMitigation	EmployeeVanpoolPercentModeShare	2	10
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	230.00	333.00
tblConstructionPhase	NumDays	230.00	7.00
tblConstructionPhase	NumDays	230.00	7.00
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	4/23/2018	4/17/2018
tblConstructionPhase	PhaseEndDate	5/2/2018	4/8/2017
tblConstructionPhase	PhaseEndDate	4/17/2017	10/9/2017
tblConstructionPhase	PhaseEndDate	4/1/2017	3/31/2017

tblConstructionPhase	PhaseEndDate	10/25/2017	4/6/2018
tblConstructionPhase	PhaseStartDate	4/7/2018	4/2/2018
tblConstructionPhase	PhaseStartDate	4/25/2018	4/1/2017
tblConstructionPhase	PhaseStartDate	4/9/2017	10/2/2017
tblConstructionPhase	PhaseStartDate	3/9/2017	3/8/2017
tblConstructionPhase	PhaseStartDate	10/10/2017	3/22/2018
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	73.70	0.00
tblFireplaces	NumberNoFireplace	13.40	134.00
tblFireplaces	NumberWood	46.90	0.00
tblGrading	AcresOfGrading	10.50	4.00
tblGrading	AcresOfGrading	10.50	0.00
tblGrading	MaterialExported	0.00	1,000.00
tblLandscapeEquipment	NumberSummerDays	180	40
tblLandUse	LandUseSquareFeet	134,000.00	120,213.00
tblLandUse	LotAcreage	8.38	4.07
tblLandUse	Population	383.00	149.00
tblOffRoadEquipment	HorsePower	174.00	255.00
tblOffRoadEquipment	LoadFactor	0.41	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Graders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblSequestration	NumberOfNewTrees	0.00	89.00
tblTripsAndVMT	HaulingTripNumber	125.00	100.00
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	VendorTripLength	7.30	6.50

tblTripsAndVMT	VendorTripLength	7.30	6.50
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripLength	10.80	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentageReduction	6.1	30
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00

## 2.0 Emissions Summary

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**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					
2017	8.6584	94.4013	68.5513	0.0779	24.5133	4.5114	29.0247	13.3215	4.1505	17.4720	0.0000	7,921.5505	7,921.5505	2.3164	0.0000	7,970.1953
2018	110.5151	22.6761	26.4861	0.0406	1.0698	1.3759	2.4457	0.2853	1.2881	1.5734	0.0000	3,713.0436	3,713.0436	0.7608	0.0000	3,729.0212
<b>Total</b>	<b>119.1735</b>	<b>117.0774</b>	<b>95.0374</b>	<b>0.1185</b>	<b>25.5830</b>	<b>5.8873</b>	<b>31.4704</b>	<b>13.6068</b>	<b>5.4387</b>	<b>19.0454</b>	<b>0.0000</b>	<b>11,634.5941</b>	<b>11,634.5941</b>	<b>3.0773</b>	<b>0.0000</b>	<b>11,699.2165</b>

**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					
2017	4.3580	43.3490	59.6612	0.0779	1.6222	1.9272	2.1431	0.4334	1.7792	1.8369	0.0000	7,921.5505	7,921.5505	2.3164	0.0000	7,970.1953
2018	108.3567	3.7920	27.0247	0.0406	1.0698	0.0610	1.1308	0.2853	0.0594	0.3447	0.0000	3,713.0436	3,713.0436	0.7608	0.0000	3,729.0212
<b>Total</b>	<b>112.7148</b>	<b>47.1410</b>	<b>86.6858</b>	<b>0.1185</b>	<b>2.6920</b>	<b>1.9882</b>	<b>3.2739</b>	<b>0.7187</b>	<b>1.8385</b>	<b>2.1815</b>	<b>0.0000</b>	<b>11,634.5941</b>	<b>11,634.5941</b>	<b>3.0773</b>	<b>0.0000</b>	<b>11,699.2165</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>5.42</b>	<b>59.74</b>	<b>8.79</b>	<b>0.00</b>	<b>89.48</b>	<b>66.23</b>	<b>89.60</b>	<b>94.72</b>	<b>66.20</b>	<b>88.55</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**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	3.9462	0.1292	11.1334	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9060	19.9060	0.0197	0.0000	20.3203
Energy	0.0172	0.1473	0.0627	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.0984	188.0984	3.6100e-003	3.4500e-003	189.2432
Mobile	1.3164	2.9230	13.3000	0.0292	2.2211	0.0358	2.2569	0.5927	0.0330	0.6257		2,361.3585	2,361.3585	0.1027		2,363.5149
<b>Total</b>	<b>5.2798</b>	<b>3.1995</b>	<b>24.4960</b>	<b>0.0307</b>	<b>2.2211</b>	<b>0.1084</b>	<b>2.3296</b>	<b>0.5927</b>	<b>0.1056</b>	<b>0.6984</b>	<b>0.0000</b>	<b>2,569.3629</b>	<b>2,569.3629</b>	<b>0.1260</b>	<b>3.4500e-003</b>	<b>2,573.0784</b>

**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	2.9807	0.1018	8.4721	3.8000e-004		0.0451	0.0451		0.0451	0.0451	0.0000	13.9960	13.9960	0.0107	0.0000	14.2211
Energy	0.0146	0.1246	0.0530	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.0197	159.0197	3.0500e-003	2.9200e-003	159.9874
Mobile	1.2801	2.7070	12.5025	0.0268	2.0364	0.0330	2.0695	0.5435	0.0304	0.5739		2,170.1311	2,170.1311	0.0951		2,172.1274
<b>Total</b>	<b>4.2754</b>	<b>2.9334</b>	<b>21.0276</b>	<b>0.0280</b>	<b>2.0364</b>	<b>0.0882</b>	<b>2.1247</b>	<b>0.5435</b>	<b>0.0856</b>	<b>0.6291</b>	<b>0.0000</b>	<b>2,343.1468</b>	<b>2,343.1468</b>	<b>0.1088</b>	<b>2.9200e-003</b>	<b>2,346.3359</b>

	ROG	NOx	CO	SO2	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	19.02	8.32	14.16	8.79	8.31	18.62	8.80	8.32	18.93	9.92	0.00	8.80	8.80	13.65	15.36	8.81

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2017	3/8/2017	6	7	Rough grading
2	Grading	Grading	3/8/2017	3/31/2017	6	21	Finish grading
3	Building Construction	Building Construction	4/1/2017	4/24/2018	6	333	Framing, finish construction
4	Building Construction - generator powered	Building Construction	4/1/2017	4/8/2017	6	7	1st week before power hookup
5	Building Construction - HVAC	Building Construction	10/2/2017	10/9/2017	6	7	Install HVAC w/crane
6	Paving	Paving	3/22/2018	4/6/2018	6	14	
7	Architectural Coating	Architectural Coating	4/2/2018	4/17/2018	6	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 243,431; Residential Outdoor: 81,144; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Site Preparation	Graders	1	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41

Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	0	7.00	226	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Building Construction - generator powered	Cranes	0	7.00	226	0.29
Building Construction - generator powered	Forklifts	0	8.00	89	0.20
Building Construction - generator powered	Generator Sets	1	8.00	84	0.74
Building Construction - generator powered	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction - generator powered	Welders	0	8.00	46	0.45
Building Construction - HVAC	Cranes	1	8.00	226	0.29
Building Construction - HVAC	Forklifts	0	8.00	89	0.20
Building Construction - HVAC	Generator Sets	0	8.00	84	0.74
Building Construction - HVAC	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction - HVAC	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40

**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
Site Preparation	6	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	100.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction generator powered	1	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction HVAC	1	96.00	14.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.7485	64.9588	45.1863	0.0531		2.9443	2.9443		2.7088	2.7088		5,428.8275	5,428.8275	1.6634		5,463.7586
<b>Total</b>	<b>5.7485</b>	<b>64.9588</b>	<b>45.1863</b>	<b>0.0531</b>	<b>18.0663</b>	<b>2.9443</b>	<b>21.0106</b>	<b>9.9307</b>	<b>2.7088</b>	<b>12.6395</b>		<b>5,428.8275</b>	<b>5,428.8275</b>	<b>1.6634</b>		<b>5,463.7586</b>

**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	0.0279	0.0337	0.3298	6.9000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		54.8444	54.8444	2.9100e-003		54.9056
<b>Total</b>	<b>0.0279</b>	<b>0.0337</b>	<b>0.3298</b>	<b>6.9000e-004</b>	<b>0.0609</b>	<b>4.7000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>4.3000e-004</b>	<b>0.0166</b>		<b>54.8444</b>	<b>54.8444</b>	<b>2.9100e-003</b>		<b>54.9056</b>

**3.2 Site Preparation - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.0838	31.4406	38.0651	0.0531		1.4330	1.4330		1.3227	1.3227	0.0000	5,428.8275	5,428.8275	1.6634		5,463.7586
<b>Total</b>	<b>3.0838</b>	<b>31.4406</b>	<b>38.0651</b>	<b>0.0531</b>	<b>0.0000</b>	<b>1.4330</b>	<b>1.4330</b>	<b>0.0000</b>	<b>1.3227</b>	<b>1.3227</b>	<b>0.0000</b>	<b>5,428.8275</b>	<b>5,428.8275</b>	<b>1.6634</b>		<b>5,463.7586</b>

**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	0.0279	0.0337	0.3298	6.9000e-004	0.0609	4.7000e-004	0.0613	0.0161	4.3000e-004	0.0166		54.8444	54.8444	2.9100e-003		54.9056
<b>Total</b>	<b>0.0279</b>	<b>0.0337</b>	<b>0.3298</b>	<b>6.9000e-004</b>	<b>0.0609</b>	<b>4.7000e-004</b>	<b>0.0613</b>	<b>0.0161</b>	<b>4.3000e-004</b>	<b>0.0166</b>		<b>54.8444</b>	<b>54.8444</b>	<b>2.9100e-003</b>		<b>54.9056</b>

**3.3 Grading - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2311	0.0000	6.2311	3.3331	0.0000	3.3331			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306		2,104.5737	2,104.5737	0.6448		2,118.1153
<b>Total</b>	<b>2.6973</b>	<b>28.1608</b>	<b>18.9679</b>	<b>0.0206</b>	<b>6.2311</b>	<b>1.5550</b>	<b>7.7861</b>	<b>3.3331</b>	<b>1.4306</b>	<b>4.7637</b>		<b>2,104.5737</b>	<b>2,104.5737</b>	<b>0.6448</b>		<b>2,118.1153</b>

**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	0.1499	1.2059	3.6552	2.7400e-003	0.0790	0.0110	0.0900	0.0214	0.0102	0.0315		264.7493	264.7493	1.6500e-003		264.7839
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	0.0348	0.0422	0.4123	8.7000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		68.5555	68.5555	3.6400e-003		68.6320
<b>Total</b>	<b>0.1847</b>	<b>1.2481</b>	<b>4.0674</b>	<b>3.6100e-003</b>	<b>0.1550</b>	<b>0.0116</b>	<b>0.1666</b>	<b>0.0416</b>	<b>0.0107</b>	<b>0.0523</b>		<b>333.3048</b>	<b>333.3048</b>	<b>5.2900e-003</b>		<b>333.4159</b>

### 3.3 Grading - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0617	10.6266	17.1989	0.0206		0.4822	0.4822		0.4454	0.4454	0.0000	2,104.5737	2,104.5737	0.6448		2,118.1153
<b>Total</b>	<b>1.0617</b>	<b>10.6266</b>	<b>17.1989</b>	<b>0.0206</b>	<b>0.0000</b>	<b>0.4822</b>	<b>0.4822</b>	<b>0.0000</b>	<b>0.4454</b>	<b>0.4454</b>	<b>0.0000</b>	<b>2,104.5737</b>	<b>2,104.5737</b>	<b>0.6448</b>		<b>2,118.1153</b>

#### 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	0.1499	1.2059	3.6552	2.7400e-003	0.0790	0.0110	0.0900	0.0214	0.0102	0.0315		264.7493	264.7493	1.6500e-003		264.7839
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	0.0348	0.0422	0.4123	8.7000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		68.5555	68.5555	3.6400e-003		68.6320
<b>Total</b>	<b>0.1847</b>	<b>1.2481</b>	<b>4.0674</b>	<b>3.6100e-003</b>	<b>0.1550</b>	<b>0.0116</b>	<b>0.1666</b>	<b>0.0416</b>	<b>0.0107</b>	<b>0.0523</b>		<b>333.3048</b>	<b>333.3048</b>	<b>5.2900e-003</b>		<b>333.4159</b>

### 3.4 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	0.9231	5.6217	4.8010	6.2200e-003		0.4313	0.4313		0.4070	0.4070		582.8994	582.8994	0.1599		586.2580
<b>Total</b>	<b>0.9231</b>	<b>5.6217</b>	<b>4.8010</b>	<b>6.2200e-003</b>		<b>0.4313</b>	<b>0.4313</b>		<b>0.4070</b>	<b>0.4070</b>		<b>582.8994</b>	<b>582.8994</b>	<b>0.1599</b>		<b>586.2580</b>

#### 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	0.2060	1.1557	3.6652	2.5900e-003	0.0808	0.0153	0.0962	0.0230	0.0141	0.0371		250.4465	250.4465	2.0600e-003		250.4897
Worker	0.3344	0.4047	3.9576	8.3200e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		658.1329	658.1329	0.0350		658.8670
<b>Total</b>	<b>0.5404</b>	<b>1.5604</b>	<b>7.6228</b>	<b>0.0109</b>	<b>0.8111</b>	<b>0.0210</b>	<b>0.8321</b>	<b>0.2167</b>	<b>0.0193</b>	<b>0.2360</b>		<b>908.5795</b>	<b>908.5795</b>	<b>0.0370</b>		<b>909.3567</b>

### 3.4 Building Construction - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0888	1.1988	4.2698	6.2200e-003		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.0000	582.8994	582.8994	0.1599		586.2580
<b>Total</b>	<b>0.0888</b>	<b>1.1988</b>	<b>4.2698</b>	<b>6.2200e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>582.8994</b>	<b>582.8994</b>	<b>0.1599</b>		<b>586.2580</b>

#### 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	0.2060	1.1557	3.6652	2.5900e-003	0.0808	0.0153	0.0962	0.0230	0.0141	0.0371		250.4465	250.4465	2.0600e-003		250.4897
Worker	0.3344	0.4047	3.9576	8.3200e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		658.1329	658.1329	0.0350		658.8670
<b>Total</b>	<b>0.5404</b>	<b>1.5604</b>	<b>7.6228</b>	<b>0.0109</b>	<b>0.8111</b>	<b>0.0210</b>	<b>0.8321</b>	<b>0.2167</b>	<b>0.0193</b>	<b>0.2360</b>		<b>908.5795</b>	<b>908.5795</b>	<b>0.0370</b>		<b>909.3567</b>

### 3.4 Building Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7972	5.0319	4.6714	6.2200e-003		0.3632	0.3632		0.3432	0.3432		576.6238	576.6238	0.1547		579.8728
<b>Total</b>	<b>0.7972</b>	<b>5.0319</b>	<b>4.6714</b>	<b>6.2200e-003</b>		<b>0.3632</b>	<b>0.3632</b>		<b>0.3432</b>	<b>0.3432</b>		<b>576.6238</b>	<b>576.6238</b>	<b>0.1547</b>		<b>579.8728</b>

#### 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	0.1797	1.0774	3.4235	2.6000e-003	0.0809	0.0130	0.0939	0.0230	0.0120	0.0350		247.7295	247.7295	1.9200e-003		247.7699
Worker	0.2907	0.3606	3.4777	8.3100e-003	0.7303	5.4600e-003	0.7357	0.1937	5.0400e-003	0.1988		633.1631	633.1631	0.0319		633.8329
<b>Total</b>	<b>0.4704</b>	<b>1.4380</b>	<b>6.9011</b>	<b>0.0109</b>	<b>0.8112</b>	<b>0.0185</b>	<b>0.8297</b>	<b>0.2167</b>	<b>0.0170</b>	<b>0.2337</b>		<b>880.8926</b>	<b>880.8926</b>	<b>0.0338</b>		<b>881.6027</b>

### 3.4 Building Construction - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0888	1.1988	4.2698	6.2200e-003		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.0000	576.6238	576.6238	0.1547		579.8728
<b>Total</b>	<b>0.0888</b>	<b>1.1988</b>	<b>4.2698</b>	<b>6.2200e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>576.6238</b>	<b>576.6238</b>	<b>0.1547</b>		<b>579.8728</b>

#### 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	0.1797	1.0774	3.4235	2.6000e-003	0.0809	0.0130	0.0939	0.0230	0.0120	0.0350		247.7295	247.7295	1.9200e-003		247.7699
Worker	0.2907	0.3606	3.4777	8.3100e-003	0.7303	5.4600e-003	0.7357	0.1937	5.0400e-003	0.1988		633.1631	633.1631	0.0319		633.8329
<b>Total</b>	<b>0.4704</b>	<b>1.4380</b>	<b>6.9011</b>	<b>0.0109</b>	<b>0.8112</b>	<b>0.0185</b>	<b>0.8297</b>	<b>0.2167</b>	<b>0.0170</b>	<b>0.2337</b>		<b>880.8926</b>	<b>880.8926</b>	<b>0.0338</b>		<b>881.6027</b>

### 3.5 Building Construction - generator powered - 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	0.5701	4.4642	3.7735	6.5800e-003		0.3004	0.3004		0.3004	0.3004		623.0346	623.0346	0.0504		624.0936
<b>Total</b>	<b>0.5701</b>	<b>4.4642</b>	<b>3.7735</b>	<b>6.5800e-003</b>		<b>0.3004</b>	<b>0.3004</b>		<b>0.3004</b>	<b>0.3004</b>		<b>623.0346</b>	<b>623.0346</b>	<b>0.0504</b>		<b>624.0936</b>

#### 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	0.2060	1.1557	3.6652	2.5900e-003	0.0808	0.0153	0.0962	0.0230	0.0141	0.0371		250.4465	250.4465	2.0600e-003		250.4897
Worker	0.3344	0.4047	3.9576	8.3200e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		658.1329	658.1329	0.0350		658.8670
<b>Total</b>	<b>0.5404</b>	<b>1.5604</b>	<b>7.6228</b>	<b>0.0109</b>	<b>0.8111</b>	<b>0.0210</b>	<b>0.8321</b>	<b>0.2167</b>	<b>0.0193</b>	<b>0.2360</b>		<b>908.5795</b>	<b>908.5795</b>	<b>0.0370</b>		<b>909.3567</b>

### 3.5 Building Construction - generator powered - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0658	0.2850	4.0564	6.5800e-003		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	623.0346	623.0346	0.0504		624.0936
<b>Total</b>	<b>0.0658</b>	<b>0.2850</b>	<b>4.0564</b>	<b>6.5800e-003</b>		<b>8.7700e-003</b>	<b>8.7700e-003</b>		<b>8.7700e-003</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>623.0346</b>	<b>623.0346</b>	<b>0.0504</b>		<b>624.0936</b>

#### 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	0.2060	1.1557	3.6652	2.5900e-003	0.0808	0.0153	0.0962	0.0230	0.0141	0.0371		250.4465	250.4465	2.0600e-003		250.4897
Worker	0.3344	0.4047	3.9576	8.3200e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		658.1329	658.1329	0.0350		658.8670
<b>Total</b>	<b>0.5404</b>	<b>1.5604</b>	<b>7.6228</b>	<b>0.0109</b>	<b>0.8111</b>	<b>0.0210</b>	<b>0.8321</b>	<b>0.2167</b>	<b>0.0193</b>	<b>0.2360</b>		<b>908.5795</b>	<b>908.5795</b>	<b>0.0370</b>		<b>909.3567</b>

### 3.6 Building Construction - HVAC - 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	0.6480	7.6930	2.7563	5.6400e-003		0.3430	0.3430		0.3155	0.3155		577.2380	577.2380	0.1769		580.9522
<b>Total</b>	<b>0.6480</b>	<b>7.6930</b>	<b>2.7563</b>	<b>5.6400e-003</b>		<b>0.3430</b>	<b>0.3430</b>		<b>0.3155</b>	<b>0.3155</b>		<b>577.2380</b>	<b>577.2380</b>	<b>0.1769</b>		<b>580.9522</b>

#### 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	0.2060	1.1557	3.6652	2.5900e-003	0.0808	0.0153	0.0962	0.0230	0.0141	0.0371		250.4465	250.4465	2.0600e-003		250.4897
Worker	0.3344	0.4047	3.9576	8.3200e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		658.1329	658.1329	0.0350		658.8670
<b>Total</b>	<b>0.5404</b>	<b>1.5604</b>	<b>7.6228</b>	<b>0.0109</b>	<b>0.8111</b>	<b>0.0210</b>	<b>0.8321</b>	<b>0.2167</b>	<b>0.0193</b>	<b>0.2360</b>		<b>908.5795</b>	<b>908.5795</b>	<b>0.0370</b>		<b>909.3567</b>

### 3.6 Building Construction - HVAC - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0694	0.3005	2.5430	5.6400e-003		9.2500e-003	9.2500e-003		9.2500e-003	9.2500e-003	0.0000	577.2380	577.2380	0.1769		580.9522
<b>Total</b>	<b>0.0694</b>	<b>0.3005</b>	<b>2.5430</b>	<b>5.6400e-003</b>		<b>9.2500e-003</b>	<b>9.2500e-003</b>		<b>9.2500e-003</b>	<b>9.2500e-003</b>	<b>0.0000</b>	<b>577.2380</b>	<b>577.2380</b>	<b>0.1769</b>		<b>580.9522</b>

#### 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	0.2060	1.1557	3.6652	2.5900e-003	0.0808	0.0153	0.0962	0.0230	0.0141	0.0371		250.4465	250.4465	2.0600e-003		250.4897
Worker	0.3344	0.4047	3.9576	8.3200e-003	0.7303	5.6400e-003	0.7359	0.1937	5.1800e-003	0.1989		658.1329	658.1329	0.0350		658.8670
<b>Total</b>	<b>0.5404</b>	<b>1.5604</b>	<b>7.6228</b>	<b>0.0109</b>	<b>0.8111</b>	<b>0.0210</b>	<b>0.8321</b>	<b>0.2167</b>	<b>0.0193</b>	<b>0.2360</b>		<b>908.5795</b>	<b>908.5795</b>	<b>0.0370</b>		<b>909.3567</b>

### 3.7 Paving - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3885	14.0727	11.8278	0.0176		0.8417	0.8417		0.7755	0.7755		1,749.8334	1,749.8334	0.5343		1,761.0529
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3885</b>	<b>14.0727</b>	<b>11.8278</b>	<b>0.0176</b>		<b>0.8417</b>	<b>0.8417</b>		<b>0.7755</b>	<b>0.7755</b>		<b>1,749.8334</b>	<b>1,749.8334</b>	<b>0.5343</b>		<b>1,761.0529</b>

#### 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	0.0454	0.0563	0.5434	1.3000e-003	0.1141	8.5000e-004	0.1150	0.0303	7.9000e-004	0.0311		98.9317	98.9317	4.9800e-003		99.0364
<b>Total</b>	<b>0.0454</b>	<b>0.0563</b>	<b>0.5434</b>	<b>1.3000e-003</b>	<b>0.1141</b>	<b>8.5000e-004</b>	<b>0.1150</b>	<b>0.0303</b>	<b>7.9000e-004</b>	<b>0.0311</b>		<b>98.9317</b>	<b>98.9317</b>	<b>4.9800e-003</b>		<b>99.0364</b>

### 3.7 Paving - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2074	0.8987	12.7897	0.0176		0.0277	0.0277		0.0277	0.0277	0.0000	1,749.8334	1,749.8334	0.5343		1,761.0529
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2074</b>	<b>0.8987</b>	<b>12.7897</b>	<b>0.0176</b>		<b>0.0277</b>	<b>0.0277</b>		<b>0.0277</b>	<b>0.0277</b>	<b>0.0000</b>	<b>1,749.8334</b>	<b>1,749.8334</b>	<b>0.5343</b>		<b>1,761.0529</b>

#### 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	0.0454	0.0563	0.5434	1.3000e-003	0.1141	8.5000e-004	0.1150	0.0303	7.9000e-004	0.0311		98.9317	98.9317	4.9800e-003		99.0364
<b>Total</b>	<b>0.0454</b>	<b>0.0563</b>	<b>0.5434</b>	<b>1.3000e-003</b>	<b>0.1141</b>	<b>8.5000e-004</b>	<b>0.1150</b>	<b>0.0303</b>	<b>7.9000e-004</b>	<b>0.0311</b>		<b>98.9317</b>	<b>98.9317</b>	<b>4.9800e-003</b>		<b>99.0364</b>

### 3.8 Architectural Coating - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	107.4575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>107.7561</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

#### 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	0.0575	0.0714	0.6883	1.6500e-003	0.1445	1.0800e-003	0.1456	0.0383	1.0000e-003	0.0393		125.3135	125.3135	6.3100e-003		125.4461
<b>Total</b>	<b>0.0575</b>	<b>0.0714</b>	<b>0.6883</b>	<b>1.6500e-003</b>	<b>0.1445</b>	<b>1.0800e-003</b>	<b>0.1456</b>	<b>0.0383</b>	<b>1.0000e-003</b>	<b>0.0393</b>		<b>125.3135</b>	<b>125.3135</b>	<b>6.3100e-003</b>		<b>125.4461</b>

### 3.8 Architectural Coating - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	107.4575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>107.4872</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

#### 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	0.0575	0.0714	0.6883	1.6500e-003	0.1445	1.0800e-003	0.1456	0.0383	1.0000e-003	0.0393		125.3135	125.3135	6.3100e-003		125.4461
<b>Total</b>	<b>0.0575</b>	<b>0.0714</b>	<b>0.6883</b>	<b>1.6500e-003</b>	<b>0.1445</b>	<b>1.0800e-003</b>	<b>0.1456</b>	<b>0.0383</b>	<b>1.0000e-003</b>	<b>0.0393</b>		<b>125.3135</b>	<b>125.3135</b>	<b>6.3100e-003</b>		<b>125.4461</b>

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

- Increase Density
- Increase Transit Accessibility
- Improve Pedestrian Network
- Employee Vanpool/Shuttle

	ROG	NOx	CO	SO2	Fugitive 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	1.2801	2.7070	12.5025	0.0268	2.0364	0.0330	2.0695	0.5435	0.0304	0.5739		2,170.131 1	2,170.131 1	0.0951		2,172.127 4
Unmitigated	1.3164	2.9230	13.3000	0.0292	2.2211	0.0358	2.2569	0.5927	0.0330	0.6257		2,361.358 5	2,361.358 5	0.1027		2,363.514 9

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	367.16	294.80	326.96	1,005,684	922,061
Total	367.16	294.80	326.96	1,005,684	922,061

### 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
Congregate Care (Assisted Living)	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.456845	0.078463	0.189736	0.161142	0.074925	0.010638	0.010772	0.000982	0.001366	0.000775	0.008718	0.000744	0.004895

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0146	0.1246	0.0530	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.0197	159.0197	3.0500e-003	2.9200e-003	159.9874
NaturalGas Unmitigated	0.0172	0.1473	0.0627	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.0984	188.0984	3.6100e-003	3.4500e-003	189.2432

### 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					
Congregate Care (Assisted Living)	1598.84	0.0172	0.1473	0.0627	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.0984	188.0984	3.6100e-003	3.4500e-003	189.2432
<b>Total</b>		<b>0.0172</b>	<b>0.1473</b>	<b>0.0627</b>	<b>9.4000e-004</b>		<b>0.0119</b>	<b>0.0119</b>		<b>0.0119</b>	<b>0.0119</b>		<b>188.0984</b>	<b>188.0984</b>	<b>3.6100e-003</b>	<b>3.4500e-003</b>	<b>189.2432</b>

#### 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					
Congregate Care (Assisted Living)	1.35167	0.0146	0.1246	0.0530	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.0197	159.0197	3.0500e-003	2.9200e-003	159.9874
<b>Total</b>		<b>0.0146</b>	<b>0.1246</b>	<b>0.0530</b>	<b>8.0000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>		<b>159.0197</b>	<b>159.0197</b>	<b>3.0500e-003</b>	<b>2.9200e-003</b>	<b>159.9874</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- 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	2.9807	0.1018	8.4721	3.8000e-004		0.0451	0.0451		0.0451	0.0451	0.0000	13.9960	13.9960	0.0107	0.0000	14.2211
Unmitigated	3.9462	0.1292	11.1334	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9060	19.9060	0.0197	0.0000	20.3203

### 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	1.0304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5726					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	0.3432	0.1292	11.1334	5.8000e-004		0.0608	0.0608		0.0608	0.0608		19.9060	19.9060	0.0197		20.3203
<b>Total</b>	<b>3.9462</b>	<b>0.1292</b>	<b>11.1334</b>	<b>5.8000e-004</b>		<b>0.0608</b>	<b>0.0608</b>		<b>0.0608</b>	<b>0.0608</b>	<b>0.0000</b>	<b>19.9060</b>	<b>19.9060</b>	<b>0.0197</b>	<b>0.0000</b>	<b>20.3203</b>

## 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					
Consumer Products	2.3802					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	0.1883	0.1018	8.4721	3.8000e-004		0.0451	0.0451		0.0451	0.0451		13.9960	13.9960	0.0107		14.2211
Architectural Coating	0.4122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.9807</b>	<b>0.1018</b>	<b>8.4721</b>	<b>3.8000e-004</b>		<b>0.0451</b>	<b>0.0451</b>		<b>0.0451</b>	<b>0.0451</b>	<b>0.0000</b>	<b>13.9960</b>	<b>13.9960</b>	<b>0.0107</b>	<b>0.0000</b>	<b>14.2211</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

- Use Reclaimed Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Turf Reduction
- Use Water Efficient Irrigation System
- Use Water Efficient Landscaping

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

### 9.0 Operational Offroad

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

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