

**NewCastle Fire**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	10.00	Space	0.09	4,000.00	0
General Office Building	18.50	1000sqft	0.42	18,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2014
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MWhr)</b>	793.8	<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 -

Construction Phase - Pre Fabbed Building

Off-road Equipment - user defined

Off-road Equipment - 400 ci diesel

544 dump trucks, D6 tractor and vibratory compactor(surfacing equipment)

Off-road Equipment -

Off-road Equipment - user defined

Trips and VMT - 544 dump trucks visiting the site

Grading -

Vehicle Trips - 2 times per day, 7 days per week

3 mile radius

Land Use Change -

Vehicle Emission Factors - fire truck assumption. 3 employee vehicles

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	8.00
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	PhaseEndDate	1/16/2015	5/26/2015
tblConstructionPhase	PhaseStartDate	1/16/2015	5/26/2015
tblGrading	MaterialImported	0.00	13,600.00
tblOffRoadEquipment	OffRoadEquipmentType		Surfacing Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblTripsAndVMT	HaulingTripNumber	0.00	432.00
tblTripsAndVMT	HaulingTripNumber	0.00	102.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblVehicleEF	HHD	0.04	0.25
tblVehicleEF	LDA	0.44	0.75
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.19	0.00
tblVehicleEF	LHD1	0.07	0.00
tblVehicleEF	LHD2	8.8820e-003	0.00
tblVehicleEF	MCY	8.3940e-003	0.00
tblVehicleEF	MDV	0.17	0.00
tblVehicleEF	MH	3.8180e-003	0.00
tblVehicleEF	MHD	0.01	0.00
tblVehicleEF	OBUS	1.8050e-003	0.00
tblVehicleEF	SBUS	5.6700e-004	0.00
tblVehicleEF	UBUS	1.0630e-003	0.00

## 2.0 Emissions Summary

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**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	0.1095	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.4000e-004
Energy	1.7300e-003	0.0157	0.0132	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	92.7514	92.7514	3.0900e-003	8.9000e-004	93.0908
Mobile	0.2131	1.0575	2.2689	2.8600e-003	0.1391	0.0184	0.1575	0.0373	0.0169	0.0543	0.0000	250.4310	250.4310	5.7800e-003	0.0000	250.5523
Waste						0.0000	0.0000		0.0000	0.0000	3.4935	0.0000	3.4935	0.2065	0.0000	7.8291
Water						0.0000	0.0000		0.0000	0.0000	1.0432	8.9458	9.9890	0.1075	2.6000e-003	13.0510
<b>Total</b>	<b>0.3243</b>	<b>1.0732</b>	<b>2.2823</b>	<b>2.9500e-003</b>	<b>0.1391</b>	<b>0.0196</b>	<b>0.1587</b>	<b>0.0373</b>	<b>0.0181</b>	<b>0.0555</b>	<b>4.5366</b>	<b>352.1287</b>	<b>356.6653</b>	<b>0.3228</b>	<b>3.4900e-003</b>	<b>364.5237</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	0.1095	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.4000e-004
Energy	1.7300e-003	0.0157	0.0132	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	92.7514	92.7514	3.0900e-003	8.9000e-004	93.0908
Mobile	0.2131	1.0575	2.2689	2.8600e-003	0.1391	0.0184	0.1575	0.0373	0.0169	0.0543	0.0000	250.4310	250.4310	5.7800e-003	0.0000	250.5523
Waste						0.0000	0.0000		0.0000	0.0000	3.4935	0.0000	3.4935	0.2065	0.0000	7.8291
Water						0.0000	0.0000		0.0000	0.0000	1.0432	8.9458	9.9890	0.1075	2.5900e-003	13.0494
<b>Total</b>	<b>0.3243</b>	<b>1.0732</b>	<b>2.2823</b>	<b>2.9500e-003</b>	<b>0.1391</b>	<b>0.0196</b>	<b>0.1587</b>	<b>0.0373</b>	<b>0.0181</b>	<b>0.0555</b>	<b>4.5366</b>	<b>352.1287</b>	<b>356.6653</b>	<b>0.3228</b>	<b>3.4800e-003</b>	<b>364.5220</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>0.00</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>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.29</b>	<b>0.00</b>

### 2.3 Vegetation

#### Vegetation

	CO2e
Category	MT
Vegetation Land Change	0.0000
<b>Total</b>	<b>0.0000</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	Land preparation	Site Preparation	1/1/2015	1/1/2015	5	1	
2	Grading	Grading	1/2/2015	1/5/2015	5	2	
3	Building Construction	Building Construction	1/6/2015	1/15/2015	5	8	
4	Paving	Paving	5/26/2015	5/26/2015	5	1	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; 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
Land preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Surfacing Equipment	1	8.00	253	0.30
Grading	Rubber Tired Dozers	1	1.00	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
Land preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	432.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	4.00	102.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



### 3.2 Land preparation - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.7200e-003	1.2100e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.1486	0.1486	4.0000e-005	0.0000	0.1495
<b>Total</b>	<b>1.8000e-004</b>	<b>1.7200e-003</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>4.0000e-004</b>	<b>3.0000e-005</b>	<b>1.2000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.1486</b>	<b>0.1486</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1495</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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0179	0.0179	0.0000	0.0000	0.0180
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0179</b>	<b>0.0179</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0180</b>

### 3.2 Land preparation - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	1.7200e-003	1.2100e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.1486	0.1486	4.0000e-005	0.0000	0.1495
<b>Total</b>	<b>1.8000e-004</b>	<b>1.7200e-003</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>4.0000e-004</b>	<b>3.0000e-005</b>	<b>1.2000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.1486</b>	<b>0.1486</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1495</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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0179	0.0179	0.0000	0.0000	0.0180
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0179</b>	<b>0.0179</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0180</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5200e-003	0.0000	1.5200e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	0.0122	7.0500e-003	1.0000e-005		6.6000e-004	6.6000e-004		6.0000e-004	6.0000e-004	0.0000	1.1720	1.1720	3.5000e-004	0.0000	1.1794
<b>Total</b>	<b>1.0200e-003</b>	<b>0.0122</b>	<b>7.0500e-003</b>	<b>1.0000e-005</b>	<b>1.5200e-003</b>	<b>6.6000e-004</b>	<b>2.1800e-003</b>	<b>5.3000e-004</b>	<b>6.0000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>1.1720</b>	<b>1.1720</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.1794</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	6.3400e-003	0.0706	0.0607	1.6000e-004	3.6200e-003	1.1900e-003	4.8100e-003	1.0000e-003	1.0900e-003	2.0900e-003	0.0000	14.9605	14.9605	1.2000e-004	0.0000	14.9631
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	4.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0717	0.0717	0.0000	0.0000	0.0718
<b>Total</b>	<b>6.3800e-003</b>	<b>0.0707</b>	<b>0.0612</b>	<b>1.6000e-004</b>	<b>3.7000e-003</b>	<b>1.1900e-003</b>	<b>4.8900e-003</b>	<b>1.0200e-003</b>	<b>1.0900e-003</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>15.0322</b>	<b>15.0322</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>15.0349</b>

**3.3 Grading - 2015****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5200e-003	0.0000	1.5200e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	6.9500e-003	7.0500e-003	1.0000e-005		6.6000e-004	6.6000e-004		6.0000e-004	6.0000e-004	0.0000	1.1720	1.1720	3.5000e-004	0.0000	1.1794
<b>Total</b>	<b>1.0200e-003</b>	<b>6.9500e-003</b>	<b>7.0500e-003</b>	<b>1.0000e-005</b>	<b>1.5200e-003</b>	<b>6.6000e-004</b>	<b>2.1800e-003</b>	<b>5.3000e-004</b>	<b>6.0000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>1.1720</b>	<b>1.1720</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.1794</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	6.3400e-003	0.0706	0.0607	1.6000e-004	3.6200e-003	1.1900e-003	4.8100e-003	1.0000e-003	1.0900e-003	2.0900e-003	0.0000	14.9605	14.9605	1.2000e-004	0.0000	14.9631
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	4.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0717	0.0717	0.0000	0.0000	0.0718
<b>Total</b>	<b>6.3800e-003</b>	<b>0.0707</b>	<b>0.0612</b>	<b>1.6000e-004</b>	<b>3.7000e-003</b>	<b>1.1900e-003</b>	<b>4.8900e-003</b>	<b>1.0200e-003</b>	<b>1.0900e-003</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>15.0322</b>	<b>15.0322</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>15.0349</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4400e-003	0.0137	9.7000e-003	1.0000e-005		1.0700e-003	1.0700e-003		9.9000e-004	9.9000e-004	0.0000	1.1884	1.1884	3.5000e-004	0.0000	1.1958
<b>Total</b>	<b>1.4400e-003</b>	<b>0.0137</b>	<b>9.7000e-003</b>	<b>1.0000e-005</b>		<b>1.0700e-003</b>	<b>1.0700e-003</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>1.1884</b>	<b>1.1884</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.1958</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	1.5000e-003	0.0167	0.0143	4.0000e-005	8.6000e-004	2.8000e-004	1.1400e-003	2.4000e-004	2.6000e-004	4.9000e-004	0.0000	3.5323	3.5323	3.0000e-005	0.0000	3.5330
Vendor	2.5000e-004	1.8200e-003	2.5700e-003	0.0000	1.0000e-004	3.0000e-005	1.3000e-004	3.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.3508	0.3508	0.0000	0.0000	0.3509
Worker	1.2000e-004	1.5000e-004	1.5100e-003	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2296	0.2296	1.0000e-005	0.0000	0.2298
<b>Total</b>	<b>1.8700e-003</b>	<b>0.0186</b>	<b>0.0184</b>	<b>4.0000e-005</b>	<b>1.2100e-003</b>	<b>3.1000e-004</b>	<b>1.5200e-003</b>	<b>3.4000e-004</b>	<b>2.9000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>4.1127</b>	<b>4.1127</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.1136</b>

### 3.4 Building Construction - 2015

#### 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	1.4400e-003	0.0137	9.7000e-003	1.0000e-005		1.0700e-003	1.0700e-003		9.9000e-004	9.9000e-004	0.0000	1.1884	1.1884	3.5000e-004	0.0000	1.1958
<b>Total</b>	<b>1.4400e-003</b>	<b>0.0137</b>	<b>9.7000e-003</b>	<b>1.0000e-005</b>		<b>1.0700e-003</b>	<b>1.0700e-003</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>1.1884</b>	<b>1.1884</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.1958</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	1.5000e-003	0.0167	0.0143	4.0000e-005	8.6000e-004	2.8000e-004	1.1400e-003	2.4000e-004	2.6000e-004	4.9000e-004	0.0000	3.5323	3.5323	3.0000e-005	0.0000	3.5330
Vendor	2.5000e-004	1.8200e-003	2.5700e-003	0.0000	1.0000e-004	3.0000e-005	1.3000e-004	3.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.3508	0.3508	0.0000	0.0000	0.3509
Worker	1.2000e-004	1.5000e-004	1.5100e-003	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2296	0.2296	1.0000e-005	0.0000	0.2298
<b>Total</b>	<b>1.8700e-003</b>	<b>0.0186</b>	<b>0.0184</b>	<b>4.0000e-005</b>	<b>1.2100e-003</b>	<b>3.1000e-004</b>	<b>1.5200e-003</b>	<b>3.4000e-004</b>	<b>2.9000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>4.1127</b>	<b>4.1127</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.1136</b>

**3.5 Paving - 2015****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.0000e-004	5.7700e-003	3.6800e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.4000e-004	3.4000e-004	0.0000	0.4960	0.4960	1.3000e-004	0.0000	0.4989
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.2000e-004</b>	<b>5.7700e-003</b>	<b>3.6800e-003</b>	<b>1.0000e-005</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>0.4960</b>	<b>0.4960</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4989</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	1.5000e-004	1.6300e-003	1.4100e-003	0.0000	8.0000e-005	3.0000e-005	1.1000e-004	2.0000e-005	3.0000e-005	5.0000e-005	0.0000	0.3463	0.3463	0.0000	0.0000	0.3464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	4.0000e-005	4.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0646
<b>Total</b>	<b>1.8000e-004</b>	<b>1.6700e-003</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>3.0000e-005</b>	<b>1.8000e-004</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.4109</b>	<b>0.4109</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.4110</b>

**3.5 Paving - 2015****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.0000e-004	5.7700e-003	3.6800e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.4000e-004	3.4000e-004	0.0000	0.4960	0.4960	1.3000e-004	0.0000	0.4989
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.2000e-004</b>	<b>5.7700e-003</b>	<b>3.6800e-003</b>	<b>1.0000e-005</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>0.4960</b>	<b>0.4960</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4989</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	1.5000e-004	1.6300e-003	1.4100e-003	0.0000	8.0000e-005	3.0000e-005	1.1000e-004	2.0000e-005	3.0000e-005	5.0000e-005	0.0000	0.3463	0.3463	0.0000	0.0000	0.3464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	4.0000e-005	4.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0646
<b>Total</b>	<b>1.8000e-004</b>	<b>1.6700e-003</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>3.0000e-005</b>	<b>1.8000e-004</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.4109</b>	<b>0.4109</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.4110</b>

**4.0 Operational Detail - Mobile**



### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2131	1.0575	2.2689	2.8600e-003	0.1391	0.0184	0.1575	0.0373	0.0169	0.0543	0.0000	250.4310	250.4310	5.7800e-003	0.0000	250.5523
Unmitigated	0.2131	1.0575	2.2689	2.8600e-003	0.1391	0.0184	0.1575	0.0373	0.0169	0.0543	0.0000	250.4310	250.4310	5.7800e-003	0.0000	250.5523

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	203.69	43.85	18.13	368,841	368,841
Parking Lot	0.00	0.00	0.00		
Total	203.69	43.85	18.13	368,841	368,841

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.750000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	75.6724	75.6724	2.7600e-003	5.7000e-004	75.9077
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	75.6724	75.6724	2.7600e-003	5.7000e-004	75.9077
NaturalGas Mitigated	1.7300e-003	0.0157	0.0132	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	17.0791	17.0791	3.3000e-004	3.1000e-004	17.1830
NaturalGas Unmitigated	1.7300e-003	0.0157	0.0132	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	17.0791	17.0791	3.3000e-004	3.1000e-004	17.1830

### 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					
General Office Building	320050	1.7300e-003	0.0157	0.0132	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	17.0791	17.0791	3.3000e-004	3.1000e-004	17.1830
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.7300e-003</b>	<b>0.0157</b>	<b>0.0132</b>	<b>9.0000e-005</b>		<b>1.1900e-003</b>	<b>1.1900e-003</b>		<b>1.1900e-003</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>17.0791</b>	<b>17.0791</b>	<b>3.3000e-004</b>	<b>3.1000e-004</b>	<b>17.1830</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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	320050	1.7300e-003	0.0157	0.0132	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	17.0791	17.0791	3.3000e-004	3.1000e-004	17.1830
<b>Total</b>		<b>1.7300e-003</b>	<b>0.0157</b>	<b>0.0132</b>	<b>9.0000e-005</b>		<b>1.1900e-003</b>	<b>1.1900e-003</b>		<b>1.1900e-003</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>17.0791</b>	<b>17.0791</b>	<b>3.3000e-004</b>	<b>3.1000e-004</b>	<b>17.1830</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	206645	74.4049	2.7200e-003	5.6000e-004	74.6364
Parking Lot	3520	1.2674	5.0000e-005	1.0000e-005	1.2714
<b>Total</b>		<b>75.6724</b>	<b>2.7700e-003</b>	<b>5.7000e-004</b>	<b>75.9077</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	206645	74.4049	2.7200e-003	5.6000e-004	74.6364
Parking Lot	3520	1.2674	5.0000e-005	1.0000e-005	1.2714
<b>Total</b>		<b>75.6724</b>	<b>2.7700e-003</b>	<b>5.7000e-004</b>	<b>75.9077</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1095	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.4000e-004
Unmitigated	0.1095	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.4000e-004

## 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	0.0216					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.4000e-004
<b>Total</b>	<b>0.1095</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.4000e-004</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					
Architectural Coating	0.0216					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.4000e-004
<b>Total</b>	<b>0.1095</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.4000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.9890	0.1075	2.5900e-003	13.0494
Unmitigated	9.9890	0.1075	2.6000e-003	13.0510

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.28807 / 2.01527	9.9890	0.1075	2.6000e-003	13.0510
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.9890</b>	<b>0.1075</b>	<b>2.6000e-003</b>	<b>13.0510</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.28807 / 2.01527	9.9890	0.1075	2.5900e-003	13.0494
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.9890</b>	<b>0.1075</b>	<b>2.5900e-003</b>	<b>13.0494</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.4935	0.2065	0.0000	7.8291
Unmitigated	3.4935	0.2065	0.0000	7.8291

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	17.21	3.4935	0.2065	0.0000	7.8291
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.4935</b>	<b>0.2065</b>	<b>0.0000</b>	<b>7.8291</b>



## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	17.21	3.4935	0.2065	0.0000	7.8291
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.4935</b>	<b>0.2065</b>	<b>0.0000</b>	<b>7.8291</b>

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

### 10.1 Vegetation Land Change

#### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Others	0 / 0.18	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>