

**City Commons, Costa Mesa**  
**Orange County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	28.00	Dwelling Unit	1.53	50,400.00	80

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2015
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<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 - 28 live work units, 1.53 acre site

Construction Phase - Demo: 20 days, Grading: 4 days, Construction: 200 days, Paving 10 days

Off-road Equipment - Construction: 1 crane, 1 forklift, 1 gen set, 1 loader/backhoe, 3 welders

Off-road Equipment - Demo: 1 concrete saw, 1 dozer, 3 loader/backhoes

Off-road Equipment - Grading: 1 grader, 1 dozer, 1 loader/backhoe

Off-road Equipment - Paving: 1 cement mixer, 1 paver, 1 paving equipment, 1 roller, 1 loader/backhoe

Demolition - 8,000 sf demo

Grading - 2000 CY Import

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialImported	0.00	2,000.00
tblLandUse	LotAcreage	9.09	1.53
tblProjectCharacteristics	OperationalYear	2014	2015

## 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	lb/day										lb/day					
Area	8.5182	0.2139	16.4273	0.0225		2.1515	2.1515		2.1511	2.1511	262.2737	508.1595	770.4332	0.7865	0.0178	792.4676
Energy	0.0239	0.2042	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.6730	260.6730	5.0000e-003	4.7800e-003	262.2594
Mobile	1.0026	2.5062	12.0593	0.0283	2.0370	0.0354	2.0725	0.5434	0.0326	0.5760		2,533.530 1	2,533.530 1	0.1041		2,535.715 1
<b>Total</b>	<b>9.5447</b>	<b>2.9242</b>	<b>28.5735</b>	<b>0.0521</b>	<b>2.0370</b>	<b>2.2034</b>	<b>4.2404</b>	<b>0.5434</b>	<b>2.2002</b>	<b>2.7437</b>	<b>262.2737</b>	<b>3,302.362 6</b>	<b>3,564.636 3</b>	<b>0.8955</b>	<b>0.0226</b>	<b>3,590.442 1</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	8.5182	0.2139	16.4273	0.0225		2.1515	2.1515		2.1511	2.1511	262.2737	508.1595	770.4332	0.7865	0.0178	792.4676
Energy	0.0239	0.2042	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.6730	260.6730	5.0000e-003	4.7800e-003	262.2594
Mobile	1.0026	2.5062	12.0593	0.0283	2.0370	0.0354	2.0725	0.5434	0.0326	0.5760		2,533.530 1	2,533.530 1	0.1041		2,535.715 1
<b>Total</b>	<b>9.5447</b>	<b>2.9242</b>	<b>28.5735</b>	<b>0.0521</b>	<b>2.0370</b>	<b>2.2034</b>	<b>4.2404</b>	<b>0.5434</b>	<b>2.2002</b>	<b>2.7437</b>	<b>262.2737</b>	<b>3,302.362 6</b>	<b>3,564.636 3</b>	<b>0.8955</b>	<b>0.0226</b>	<b>3,590.442 1</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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Grading	Grading	1/29/2015	2/3/2015	5	4	
3	Building Construction	Building Construction	2/4/2015	11/10/2015	5	200	
4	Paving	Paving	11/11/2015	11/24/2015	5	10	
5	Architectural Coating	Architectural Coating	11/25/2015	12/8/2015	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 102,060; Residential Outdoor: 34,020; 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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	10.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3937	0.0000	0.3937	0.0596	0.0000	0.0596			0.0000			0.0000
Off-Road	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104
<b>Total</b>	<b>3.0666</b>	<b>29.6778</b>	<b>22.0566</b>	<b>0.0245</b>	<b>0.3937</b>	<b>1.8651</b>	<b>2.2588</b>	<b>0.0596</b>	<b>1.7469</b>	<b>1.8066</b>		<b>2,509.0599</b>	<b>2,509.0599</b>	<b>0.6357</b>		<b>2,522.4104</b>

### 3.2 Demolition - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0363	0.5620	0.3824	1.3300e-003	0.0314	9.3200e-003	0.0407	8.5800e-003	8.5700e-003	0.0172		134.9243	134.9243	1.0500e-003		134.9464
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	0.0496	0.0644	0.7847	1.7600e-003	0.1453	1.0600e-003	0.1464	0.0385	9.7000e-004	0.0395		152.8573	152.8573	7.5100e-003		153.0151
<b>Total</b>	<b>0.0859</b>	<b>0.6264</b>	<b>1.1671</b>	<b>3.0900e-003</b>	<b>0.1767</b>	<b>0.0104</b>	<b>0.1870</b>	<b>0.0471</b>	<b>9.5400e-003</b>	<b>0.0567</b>		<b>287.7817</b>	<b>287.7817</b>	<b>8.5600e-003</b>		<b>287.9615</b>

#### 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					0.1536	0.0000	0.1536	0.0233	0.0000	0.0233			0.0000			0.0000
Off-Road	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469	0.0000	2,509.0599	2,509.0599	0.6357		2,522.4104
<b>Total</b>	<b>3.0666</b>	<b>29.6778</b>	<b>22.0566</b>	<b>0.0245</b>	<b>0.1536</b>	<b>1.8651</b>	<b>2.0187</b>	<b>0.0233</b>	<b>1.7469</b>	<b>1.7702</b>	<b>0.0000</b>	<b>2,509.0599</b>	<b>2,509.0599</b>	<b>0.6357</b>		<b>2,522.4104</b>



### 3.2 Demolition - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0363	0.5620	0.3824	1.3300e-003	0.0314	9.3200e-003	0.0407	8.5800e-003	8.5700e-003	0.0172		134.9243	134.9243	1.0500e-003		134.9464
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	0.0496	0.0644	0.7847	1.7600e-003	0.1453	1.0600e-003	0.1464	0.0385	9.7000e-004	0.0395		152.8573	152.8573	7.5100e-003		153.0151
<b>Total</b>	<b>0.0859</b>	<b>0.6264</b>	<b>1.1671</b>	<b>3.0900e-003</b>	<b>0.1767</b>	<b>0.0104</b>	<b>0.1870</b>	<b>0.0471</b>	<b>9.5400e-003</b>	<b>0.0567</b>		<b>287.7817</b>	<b>287.7817</b>	<b>8.5600e-003</b>		<b>287.9615</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	lb/day										lb/day					
Fugitive Dust					4.9708	0.0000	4.9708	2.5342	0.0000	2.5342			0.0000			0.0000
Off-Road	2.0666	21.9443	14.0902	0.0141		1.1968	1.1968		1.1011	1.1011		1,479.8000	1,479.8000	0.4418		1,489.0774
<b>Total</b>	<b>2.0666</b>	<b>21.9443</b>	<b>14.0902</b>	<b>0.0141</b>	<b>4.9708</b>	<b>1.1968</b>	<b>6.1676</b>	<b>2.5342</b>	<b>1.1011</b>	<b>3.6352</b>		<b>1,479.8000</b>	<b>1,479.8000</b>	<b>0.4418</b>		<b>1,489.0774</b>

### 3.3 Grading - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2618	19.5132	13.2789	0.0460	1.0886	0.3236	1.4122	0.2981	0.2976	0.5957		4,684.8723	4,684.8723	0.0365		4,685.6397
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	0.0305	0.0396	0.4829	1.0900e-003	0.0894	6.5000e-004	0.0901	0.0237	6.0000e-004	0.0243		94.0661	94.0661	4.6200e-003		94.1631
<b>Total</b>	<b>1.2923</b>	<b>19.5528</b>	<b>13.7618</b>	<b>0.0471</b>	<b>1.1780</b>	<b>0.3243</b>	<b>1.5022</b>	<b>0.3218</b>	<b>0.2982</b>	<b>0.6200</b>		<b>4,778.9384</b>	<b>4,778.9384</b>	<b>0.0412</b>		<b>4,779.8028</b>

#### 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					1.9386	0.0000	1.9386	0.9883	0.0000	0.9883			0.0000			0.0000
Off-Road	2.0666	21.9443	14.0902	0.0141		1.1968	1.1968		1.1011	1.1011	0.0000	1,479.8000	1,479.8000	0.4418		1,489.0774
<b>Total</b>	<b>2.0666</b>	<b>21.9443</b>	<b>14.0902</b>	<b>0.0141</b>	<b>1.9386</b>	<b>1.1968</b>	<b>3.1354</b>	<b>0.9883</b>	<b>1.1011</b>	<b>2.0894</b>	<b>0.0000</b>	<b>1,479.8000</b>	<b>1,479.8000</b>	<b>0.4418</b>		<b>1,489.0774</b>

### 3.3 Grading - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2618	19.5132	13.2789	0.0460	1.0886	0.3236	1.4122	0.2981	0.2976	0.5957		4,684.8723	4,684.8723	0.0365		4,685.6397
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	0.0305	0.0396	0.4829	1.0900e-003	0.0894	6.5000e-004	0.0901	0.0237	6.0000e-004	0.0243		94.0661	94.0661	4.6200e-003		94.1631
<b>Total</b>	<b>1.2923</b>	<b>19.5528</b>	<b>13.7618</b>	<b>0.0471</b>	<b>1.1780</b>	<b>0.3243</b>	<b>1.5022</b>	<b>0.3218</b>	<b>0.2982</b>	<b>0.6200</b>		<b>4,778.9384</b>	<b>4,778.9384</b>	<b>0.0412</b>		<b>4,779.8028</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	lb/day										lb/day					
Off-Road	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344		2,055.6247	2,055.6247	0.4741		2,065.5812
<b>Total</b>	<b>3.6000</b>	<b>21.5642</b>	<b>15.0041</b>	<b>0.0220</b>		<b>1.4851</b>	<b>1.4851</b>		<b>1.4344</b>	<b>1.4344</b>		<b>2,055.6247</b>	<b>2,055.6247</b>	<b>0.4741</b>		<b>2,065.5812</b>

### 3.4 Building Construction - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0289	0.2937	0.3269	6.5000e-004	0.0187	4.9500e-003	0.0237	5.3400e-003	4.5500e-003	9.8900e-003		65.7770	65.7770	5.1000e-004			65.7877
Worker	0.0381	0.0496	0.6036	1.3600e-003	0.1118	8.1000e-004	0.1126	0.0296	7.5000e-004	0.0304		117.5826	117.5826	5.7800e-003			117.7039
<b>Total</b>	<b>0.0670</b>	<b>0.3433</b>	<b>0.9305</b>	<b>2.0100e-003</b>	<b>0.1305</b>	<b>5.7600e-003</b>	<b>0.1363</b>	<b>0.0350</b>	<b>5.3000e-003</b>	<b>0.0403</b>		<b>183.3596</b>	<b>183.3596</b>	<b>6.2900e-003</b>			<b>183.4916</b>

#### 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	3.6000	21.5642	15.0041	0.0220		1.4851	1.4851		1.4344	1.4344	0.0000	2,055.6247	2,055.6247	0.4741			2,065.5812
<b>Total</b>	<b>3.6000</b>	<b>21.5642</b>	<b>15.0041</b>	<b>0.0220</b>		<b>1.4851</b>	<b>1.4851</b>		<b>1.4344</b>	<b>1.4344</b>	<b>0.0000</b>	<b>2,055.6247</b>	<b>2,055.6247</b>	<b>0.4741</b>			<b>2,065.5812</b>

### 3.4 Building Construction - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0289	0.2937	0.3269	6.5000e-004	0.0187	4.9500e-003	0.0237	5.3400e-003	4.5500e-003	9.8900e-003		65.7770	65.7770	5.1000e-004			65.7877
Worker	0.0381	0.0496	0.6036	1.3600e-003	0.1118	8.1000e-004	0.1126	0.0296	7.5000e-004	0.0304		117.5826	117.5826	5.7800e-003			117.7039
<b>Total</b>	<b>0.0670</b>	<b>0.3433</b>	<b>0.9305</b>	<b>2.0100e-003</b>	<b>0.1305</b>	<b>5.7600e-003</b>	<b>0.1363</b>	<b>0.0350</b>	<b>5.3000e-003</b>	<b>0.0403</b>		<b>183.3596</b>	<b>183.3596</b>	<b>6.2900e-003</b>			<b>183.4916</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	lb/day										lb/day						
Off-Road	1.4041	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215		1,382.4703	1,382.4703	0.4054			1,390.9826
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.4041</b>	<b>14.5959</b>	<b>9.1695</b>	<b>0.0133</b>		<b>0.8919</b>	<b>0.8919</b>		<b>0.8215</b>	<b>0.8215</b>		<b>1,382.4703</b>	<b>1,382.4703</b>	<b>0.4054</b>			<b>1,390.9826</b>

### 3.5 Paving - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0496	0.0644	0.7847	1.7600e-003	0.1453	1.0600e-003	0.1464	0.0385	9.7000e-004	0.0395		152.8573	152.8573	7.5100e-003			153.0151
<b>Total</b>	<b>0.0496</b>	<b>0.0644</b>	<b>0.7847</b>	<b>1.7600e-003</b>	<b>0.1453</b>	<b>1.0600e-003</b>	<b>0.1464</b>	<b>0.0385</b>	<b>9.7000e-004</b>	<b>0.0395</b>		<b>152.8573</b>	<b>152.8573</b>	<b>7.5100e-003</b>			<b>153.0151</b>

#### 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	1.4041	14.5959	9.1695	0.0133		0.8919	0.8919		0.8215	0.8215	0.0000	1,382.4703	1,382.4703	0.4054			1,390.9826
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.4041</b>	<b>14.5959</b>	<b>9.1695</b>	<b>0.0133</b>		<b>0.8919</b>	<b>0.8919</b>		<b>0.8215</b>	<b>0.8215</b>	<b>0.0000</b>	<b>1,382.4703</b>	<b>1,382.4703</b>	<b>0.4054</b>			<b>1,390.9826</b>

### 3.5 Paving - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0496	0.0644	0.7847	1.7600e-003	0.1453	1.0600e-003	0.1464	0.0385	9.7000e-004	0.0395		152.8573	152.8573	7.5100e-003			153.0151
<b>Total</b>	<b>0.0496</b>	<b>0.0644</b>	<b>0.7847</b>	<b>1.7600e-003</b>	<b>0.1453</b>	<b>1.0600e-003</b>	<b>0.1464</b>	<b>0.0385</b>	<b>9.7000e-004</b>	<b>0.0395</b>		<b>152.8573</b>	<b>152.8573</b>	<b>7.5100e-003</b>			<b>153.0151</b>

### 3.6 Architectural Coating - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	39.4207					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367			282.2177
<b>Total</b>	<b>39.8273</b>	<b>2.5703</b>	<b>1.9018</b>	<b>2.9700e-003</b>		<b>0.2209</b>	<b>0.2209</b>		<b>0.2209</b>	<b>0.2209</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0367</b>			<b>282.2177</b>

### 3.6 Architectural Coating - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	7.6300e-003	9.9100e-003	0.1207	2.7000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		23.5165	23.5165	1.1600e-003			23.5408
<b>Total</b>	<b>7.6300e-003</b>	<b>9.9100e-003</b>	<b>0.1207</b>	<b>2.7000e-004</b>	<b>0.0224</b>	<b>1.6000e-004</b>	<b>0.0225</b>	<b>5.9300e-003</b>	<b>1.5000e-004</b>	<b>6.0800e-003</b>		<b>23.5165</b>	<b>23.5165</b>	<b>1.1600e-003</b>			<b>23.5408</b>

#### 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	39.4207					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367			282.2177
<b>Total</b>	<b>39.8273</b>	<b>2.5703</b>	<b>1.9018</b>	<b>2.9700e-003</b>		<b>0.2209</b>	<b>0.2209</b>		<b>0.2209</b>	<b>0.2209</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0367</b>			<b>282.2177</b>



### 3.6 Architectural Coating - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.6300e-003	9.9100e-003	0.1207	2.7000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		23.5165	23.5165	1.1600e-003		23.5408
<b>Total</b>	<b>7.6300e-003</b>	<b>9.9100e-003</b>	<b>0.1207</b>	<b>2.7000e-004</b>	<b>0.0224</b>	<b>1.6000e-004</b>	<b>0.0225</b>	<b>5.9300e-003</b>	<b>1.5000e-004</b>	<b>6.0800e-003</b>		<b>23.5165</b>	<b>23.5165</b>	<b>1.1600e-003</b>		<b>23.5408</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	lb/day										lb/day					
Mitigated	1.0026	2.5062	12.0593	0.0283	2.0370	0.0354	2.0725	0.5434	0.0326	0.5760		2,533.5301	2,533.5301	0.1041		2,535.7151
Unmitigated	1.0026	2.5062	12.0593	0.0283	2.0370	0.0354	2.0725	0.5434	0.0326	0.5760		2,533.5301	2,533.5301	0.1041		2,535.7151

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	267.96	282.24	245.56	911,696	911,696
Total	267.96	282.24	245.56	911,696	911,696

### 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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511437	0.057382	0.191336	0.153047	0.041226	0.005877	0.014979	0.013726	0.001416	0.002136	0.004703	0.000510	0.002224

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
NaturalGas Mitigated	0.0239	0.2042	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.6730	260.6730	5.0000e-003	4.7800e-003	262.2594
NaturalGas Unmitigated	0.0239	0.2042	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.6730	260.6730	5.0000e-003	4.7800e-003	262.2594

## 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					
Single Family Housing	2215.72	0.0239	0.2042	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.6730	260.6730	5.0000e-003	4.7800e-003	262.2594
<b>Total</b>		<b>0.0239</b>	<b>0.2042</b>	<b>0.0869</b>	<b>1.3000e-003</b>		<b>0.0165</b>	<b>0.0165</b>		<b>0.0165</b>	<b>0.0165</b>		<b>260.6730</b>	<b>260.6730</b>	<b>5.0000e-003</b>	<b>4.7800e-003</b>	<b>262.2594</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					
Single Family Housing	2.21572	0.0239	0.2042	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.6730	260.6730	5.0000e-003	4.7800e-003	262.2594
<b>Total</b>		<b>0.0239</b>	<b>0.2042</b>	<b>0.0869</b>	<b>1.3000e-003</b>		<b>0.0165</b>	<b>0.0165</b>		<b>0.0165</b>	<b>0.0165</b>		<b>260.6730</b>	<b>260.6730</b>	<b>5.0000e-003</b>	<b>4.7800e-003</b>	<b>262.2594</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	lb/day										lb/day					
Mitigated	8.5182	0.2139	16.4273	0.0225		2.1515	2.1515		2.1511	2.1511	262.2737	508.1595	770.4332	0.7865	0.0178	792.4676
Unmitigated	8.5182	0.2139	16.4273	0.0225		2.1515	2.1515		2.1511	2.1511	262.2737	508.1595	770.4332	0.7865	0.0178	792.4676

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1080					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.3370	0.1862	14.0740	0.0224		2.1389	2.1389		2.1385	2.1385	262.2737	504.0000	766.2737	0.7822	0.0178	788.2173
Landscaping	0.0753	0.0277	2.3534	1.2000e-004		0.0126	0.0126		0.0126	0.0126		4.1595	4.1595	4.3300e-003		4.2503
<b>Total</b>	<b>8.5182</b>	<b>0.2139</b>	<b>16.4273</b>	<b>0.0225</b>		<b>2.1515</b>	<b>2.1515</b>		<b>2.1511</b>	<b>2.1511</b>	<b>262.2737</b>	<b>508.1595</b>	<b>770.4332</b>	<b>0.7865</b>	<b>0.0178</b>	<b>792.4676</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	0.1080					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.3370	0.1862	14.0740	0.0224		2.1389	2.1389		2.1385	2.1385	262.2737	504.0000	766.2737	0.7822	0.0178	788.2173
Landscaping	0.0753	0.0277	2.3534	1.2000e-004		0.0126	0.0126		0.0126	0.0126		4.1595	4.1595	4.3300e-003		4.2503
<b>Total</b>	<b>8.5182</b>	<b>0.2139</b>	<b>16.4273</b>	<b>0.0225</b>		<b>2.1515</b>	<b>2.1515</b>		<b>2.1511</b>	<b>2.1511</b>	<b>262.2737</b>	<b>508.1595</b>	<b>770.4332</b>	<b>0.7865</b>	<b>0.0178</b>	<b>792.4676</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 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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