

**Appendix C**

Kenwood Village Project

CalEEMod Files



**Kenwood Village Residential Project**  
Santa Barbara-South of Santa Ynez Range County, Winter

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condor/Townhouse	47.00	Dwelling Unit	5.78	80,941.00	128
Single Family Housing	13.00	Dwelling Unit	4.22	31,465.00	35

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	37
Climate Zone	8	Operational Year	2018		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

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

## Project Characteristics -

Land Use - Lot acreage of total project site = 10 acres

Total gross square footage of development = 112,406 SF (breakdown between SFDs and multi-family as noted)

Construction Phase - No structures on site; therefore 0 days for demolition.

Demolition -

Grading -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseStartDate	2/24/2018	2/26/2018
tblConstructionPhase	PhaseStartDate	3/11/2017	3/13/2017
tblConstructionPhase	PhaseStartDate	2/11/2017	2/13/2017
tblConstructionPhase	PhaseStartDate	1/27/2018	1/29/2018
tblConstructionPhase	PhaseStartDate	1/28/2017	1/30/2017
tblLandUse	LandUseSquareFeet	47,000.00	80,941.00
tblLandUse	LandUseSquareFeet	23,400.00	31,465.00
tblLandUse	LotAcreage	2.84	5.78
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripNumber	0.00	1,125.00

**2.0 Emissions Summary**

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

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
2017	7.4715	85.7043	67.0302	0.1051	18.2346	3.5075	20.9900	9.9753	3.2268	12.5103	0.0000	10,563.295	9	1.9715	0.0000	10,604.696
2018	178.1628	23.8555	20.3560	0.0316	0.3988	1.5015	1.9913	0.1039	1.4114	1.5153	0.0000	2,996.6893	2,996.6893	0.7093	0.0000	3,011.4966
<b>Total</b>	<b>183.6343</b>	<b>109.5597</b>	<b>87.3862</b>	<b>0.1367</b>	<b>18.6244</b>	<b>5.0090</b>	<b>22.9813</b>	<b>10.0792</b>	<b>4.6382</b>	<b>14.0256</b>	<b>0.0000</b>	<b>13,560.985</b>	<b>2</b>	<b>2.6767</b>	<b>0.0000</b>	<b>13,616.196</b>

**Mitigated Construction**

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
2017	7.4715	85.7043	67.0302	0.1051	18.2346	3.5075	20.9900	9.9753	3.2268	12.5103	0.0000	10,563.295	9	1.9715	0.0000	10,604.696
2018	178.1628	23.8555	20.3560	0.0316	0.3988	1.5015	1.9913	0.1039	1.4114	1.5153	0.0000	2,996.6893	2,996.6893	0.7093	0.0000	3,011.4966
<b>Total</b>	<b>183.6343</b>	<b>109.5597</b>	<b>87.3862</b>	<b>0.1367</b>	<b>18.6244</b>	<b>5.0090</b>	<b>22.9813</b>	<b>10.0792</b>	<b>4.6382</b>	<b>14.0256</b>	<b>0.0000</b>	<b>13,560.985</b>	<b>2</b>	<b>2.6767</b>	<b>0.0000</b>	<b>13,616.196</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
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

CalEEMod Version: CalEEMod.2013.2.2

**2.2 Overall Operational  
Unmitigated Operational**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	3.5227	0.0578	4.9851	2.6000e-004	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0000	8.9131	8.9131	8.8300e-003	0.0000	9.0986
Energy	0.0331	0.2626	0.1203	1.6000e-003	0.0229	0.0229	0.0229	0.0229	0.0229	0.0229	0.0000	360.7834	360.7834	6.8100e-003	6.8100e-003	362.9590
Mobile	1.7427	4.1952	19.3541	0.0359	2.7342	0.0486	2.7829	0.7309	0.0448	0.7757	0.0000	2,945.5488	2,945.5488	0.1310	0.0000	2,948.2997
<b>Total</b>	<b>5.2985</b>	<b>4.5357</b>	<b>24.4695</b>	<b>0.0380</b>	<b>2.7342</b>	<b>0.0987</b>	<b>2.8329</b>	<b>0.7309</b>	<b>0.0949</b>	<b>0.8258</b>	<b>0.0000</b>	<b>3,315.2253</b>	<b>3,315.2253</b>	<b>0.1467</b>	<b>6.8100e-003</b>	<b>3,320.3563</b>

**Mitigated Operational**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	3.5227	0.0578	4.9851	2.6000e-004	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0000	8.9131	8.9131	8.8300e-003	0.0000	9.0986
Energy	0.0281	0.2483	0.1057	1.5900e-003	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0000	317.0120	317.0120	6.0600e-003	6.0600e-003	318.9413
Mobile	1.7427	4.1952	19.3541	0.0359	2.7342	0.0486	2.7829	0.7309	0.0448	0.7757	0.0000	2,945.5488	2,945.5488	0.1310	0.0000	2,948.2997
<b>Total</b>	<b>5.2945</b>	<b>4.5014</b>	<b>24.4449</b>	<b>0.0376</b>	<b>2.7342</b>	<b>0.0859</b>	<b>2.8302</b>	<b>0.7309</b>	<b>0.0921</b>	<b>0.8230</b>	<b>0.0000</b>	<b>3,271.4739</b>	<b>3,271.4739</b>	<b>0.1459</b>	<b>5.8100e-003</b>	<b>3,276.3396</b>

Percent Reduction	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	Total CO2	CH4	N2O	CO2e
0.08	0.75	0.06	0.55	0.00	2.81	0.10	0.00	2.92	0.34	0.00	1.32	1.32	0.57	12.10	1.33

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days Total	Phase Description
1	Demolition	Demolition	1/2/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/30/2017	2/10/2017	5	10	
3	Grading	Grading	2/13/2017	3/10/2017	5	20	
4	Building Construction	Building Construction	3/13/2017	1/26/2018	5	230	
5	Paving	Paving	1/29/2018	2/23/2018	5	20	
6	Architectural Coating	Architectural Coating	2/26/2018	3/23/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 227,622; Residential Outdoor: 75,874; 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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.38
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	76	0.48

**Trips and VMI**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.30	4.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.30	4.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,125.00	12.30	4.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	39.00	6.00	0.00	12.30	4.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	15.00	0.00	0.00	12.30	4.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	12.30	4.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2017**  
**Unmitigated Construction On-Site**

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
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
<b>Total</b>	<b>4.0482</b>	<b>42.6971</b>	<b>33.8934</b>	<b>0.0399</b>	<b>0.0000</b>	<b>2.1252</b>	<b>2.1252</b>	<b>0.0000</b>	<b>1.9797</b>	<b>1.9797</b>	<b>0.0000</b>	<b>4,036.4674</b>	<b>4,036.4674</b>	<b>1.1073</b>		<b>4,059.7211</b>

**3.2 Demolition - 2017**  
**Unmitigated Construction Off-Site**

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
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
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
Worker	0.0572	0.0974	0.8261	1.4900e-003	0.1403	9.9000e-004	0.1413	0.0372	9.1000e-004	0.0381		119.2159	119.2159	6.6400e-003		119.3616
<b>Total</b>	<b>0.0572</b>	<b>0.0974</b>	<b>0.8261</b>	<b>1.4900e-003</b>	<b>0.1403</b>	<b>9.9000e-004</b>	<b>0.1413</b>	<b>0.0372</b>	<b>9.1000e-004</b>	<b>0.0381</b>	<b>0.0000</b>	<b>119.2159</b>	<b>119.2159</b>	<b>6.6400e-003</b>		<b>119.3616</b>

**Mitigated Construction On-Site**

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
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
<b>Total</b>	<b>4.0482</b>	<b>42.6971</b>	<b>33.8934</b>	<b>0.0399</b>	<b>0.0000</b>	<b>2.1252</b>	<b>2.1252</b>	<b>0.0000</b>	<b>1.9797</b>	<b>1.9797</b>	<b>0.0000</b>	<b>4,036.4674</b>	<b>4,036.4674</b>	<b>1.1073</b>		<b>4,059.7211</b>

**3.2 Demolition - 2017**  
**Mitigated Construction Off-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	0.0572	0.0974	0.8261	1.4600e-003	0.1403	9.9000e-004	0.1413	0.0372	9.1000e-004	0.0381	119.2159	119.2159	6.6400e-003	119.3616		119.3616
<b>Total</b>	<b>0.0572</b>	<b>0.0974</b>	<b>0.8261</b>	<b>1.4900e-003</b>	<b>0.1403</b>	<b>9.9000e-004</b>	<b>0.1413</b>	<b>0.0372</b>	<b>9.1000e-004</b>	<b>0.0381</b>	<b>119.2159</b>	<b>119.2159</b>	<b>6.5400e-003</b>	<b>119.3616</b>		<b>119.3616</b>

**3.3 Site Preparation - 2017**  
**Unmitigated Construction On-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391	2.7542	2.7542	2.7542	2.5339	2.5339	2.5339	4,003.0859	4,003.0859	1.2285	4,028.8432		4,028.8432
<b>Total</b>	<b>4.8382</b>	<b>51.7535</b>	<b>39.3970</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.7542</b>	<b>20.8205</b>	<b>9.9307</b>	<b>2.5339</b>	<b>12.4646</b>	<b>4,003.0859</b>	<b>4,003.0859</b>	<b>1.2285</b>	<b>4,028.8432</b>		<b>4,028.8432</b>

**3.3 Site Preparation - 2017**  
**Unmitigated Construction Off-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	0.0687	0.1169	0.9914	1.7000e-003	0.1684	1.1900e-003	0.1696	0.0447	1.0600e-003	0.0458	143.0591	143.0591	8.3200e-003	143.2339		143.2339
<b>Total</b>	<b>0.0687</b>	<b>0.1169</b>	<b>0.9914</b>	<b>1.7500e-003</b>	<b>0.1684</b>	<b>1.1900e-003</b>	<b>0.1696</b>	<b>0.0447</b>	<b>1.0900e-003</b>	<b>0.0458</b>	<b>143.0591</b>	<b>143.0591</b>	<b>8.3200e-003</b>	<b>143.2339</b>		<b>143.2339</b>

**Mitigated Construction On-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391	2.7542	2.7542	2.7542	2.5339	2.5339	2.5339	0.0000	4,003.0859	1.2285	4,028.8432		4,028.8432
<b>Total</b>	<b>4.8382</b>	<b>51.7535</b>	<b>39.3970</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.7542</b>	<b>20.8205</b>	<b>9.9307</b>	<b>2.5339</b>	<b>12.4646</b>	<b>0.0000</b>	<b>4,003.0859</b>	<b>1.2285</b>	<b>4,028.8432</b>		<b>4,028.8432</b>

**3.3 Site Preparation - 2017  
Mitigated Construction Off-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio-CO2	Total CO2	CH4	N2O	CO2e	
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	0.0687	0.1189	0.9914	1.7900e-003	0.1884	1.1900e-003	0.1896	0.0447	1.0900e-003	0.0458	143.0591	143.0591	8.3200e-003		143.2339	
<b>Total</b>	<b>0.0687</b>	<b>0.1189</b>	<b>0.9914</b>	<b>1.7900e-003</b>	<b>0.1884</b>	<b>1.1900e-003</b>	<b>0.1896</b>	<b>0.0447</b>	<b>1.0900e-003</b>	<b>0.0458</b>	<b>143.0591</b>	<b>143.0591</b>	<b>8.3200e-003</b>		<b>143.2339</b>	

**3.4 Grading - 2017  
Unmitigated Construction On-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965		0.0000			0.0000	
Off-Road	6.0991	69.5920	46.8050	0.0617	3.3172	3.3172	3.3172	3.0518	3.0518	3.0518	6,313.3690	6,313.3690	1.9344		6,353.9915	
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>8.6733</b>	<b>3.3172</b>	<b>11.9905</b>	<b>3.5965</b>	<b>3.0518</b>	<b>6.6483</b>	<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>		<b>6,353.9915</b>	

**3.4 Grading - 2017  
Unmitigated Construction Off-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Hauling	1.2680	16.9824	19.1237	0.0414	0.9735	0.1890	1.1625	0.2681	0.1735	0.3999	4,000.0723	4,000.0723	0.0278		4,091.5566	
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	0.0783	0.1299	1.1015	1.9600e-003	0.1671	1.3200e-003	0.1684	0.0486	1.2100e-003	0.0508	155.9546	155.9546	9.2500e-003		159.1489	
<b>Total</b>	<b>1.3723</b>	<b>16.1123</b>	<b>20.2252</b>	<b>0.0434</b>	<b>1.1606</b>	<b>0.1903</b>	<b>1.3509</b>	<b>0.3167</b>	<b>0.1750</b>	<b>0.4907</b>	<b>4,249.9269</b>	<b>4,249.9269</b>	<b>0.0371</b>		<b>4,250.7054</b>	

**Mitigated Construction On-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965		0.0000			0.0000	
Off-Road	6.0991	69.5920	46.8050	0.0617	3.3172	3.3172	3.3172	3.0518	3.0518	3.0518	6,313.3690	6,313.3690	1.9344		6,353.9915	
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>8.6733</b>	<b>3.3172</b>	<b>11.9905</b>	<b>3.5965</b>	<b>3.0518</b>	<b>6.6483</b>	<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>		<b>6,353.9915</b>	



**3.4 Grading - 2017**  
**Mitigated Construction Off-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.2600	15.9824	19.1237	0.0414	0.9735	0.1960	1.1625	0.2661	0.1738	0.4399	4,090.9723	4,090.9723	0.0278			4,091.5566
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
Worker	0.0763	0.1299	1.1015	1.9900e-003	0.1871	1.3200e-003	0.1884	0.0498	1.2100e-003	0.0508	158.9546	158.9546	9.2600e-003			159.1468
<b>Total</b>	<b>1.3723</b>	<b>16.1123</b>	<b>20.2282</b>	<b>0.0434</b>	<b>1.1606</b>	<b>0.1903</b>	<b>1.3509</b>	<b>0.3157</b>	<b>0.1750</b>	<b>0.4907</b>	<b>4,249.9269</b>	<b>4,249.9269</b>	<b>0.0371</b>			<b>4,250.7054</b>

**3.5 Building Construction - 2017**  
**Unmitigated Construction On-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Off-Road	3.1024	26.4057	18.1291	0.0268	1.7812	1.7812	1.7812	1.6730	1.6730	1.6730	2,639.8053	2,639.8053	0.6497			2,643.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>	<b>1.7812</b>	<b>1.7812</b>	<b>1.7812</b>	<b>1.6730</b>	<b>1.6730</b>	<b>1.6730</b>	<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,643.4490</b>

**3.5 Building Construction - 2017**  
**Unmitigated Construction Off-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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
Vendor	0.0673	0.4047	1.0113	9.2000e-004	0.0250	5.1700e-003	0.0301	7.1000e-003	4.7500e-003	0.0119	89.9238	89.9238	7.5000e-004			89.9396
Worker	0.1488	0.2533	2.1479	3.9700e-003	0.3548	2.5600e-003	0.3874	0.0968	2.3600e-003	0.0991	309.9814	309.9814	0.0180			310.3402
<b>Total</b>	<b>0.2161</b>	<b>0.6680</b>	<b>3.1592</b>	<b>4.7500e-003</b>	<b>0.3898</b>	<b>7.7500e-003</b>	<b>0.3975</b>	<b>0.1039</b>	<b>7.1100e-003</b>	<b>0.1110</b>	<b>399.8852</b>	<b>399.8852</b>	<b>0.0188</b>			<b>400.2798</b>

**Mitigated Construction On-Site**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Off-Road	3.1024	26.4057	18.1291	0.0268	1.7812	1.7812	1.7812	1.6730	1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,643.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>	<b>1.7812</b>	<b>1.7812</b>	<b>1.7812</b>	<b>1.6730</b>	<b>1.6730</b>	<b>1.6730</b>	<b>0.0000</b>	<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>		<b>2,643.4490</b>

**3.5 Building Construction - 2017  
Mitigated Construction Off-Site**

Category	bldg														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	Net CO2	CH4	N2O	CO2e
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
Vendor	0.0073	0.4047	1.0113	9.2000e-004	0.0250	5.1700e-003	0.0301	7.1000e-003	4.7500e-003	0.0119	89.9238	89.9238	7.4000e-004		89.9396
Worker	0.1488	0.2533	2.1479	3.8700e-003	0.3548	2.5800e-003	0.3574	0.0958	2.3000e-003	0.0991	309.9614	309.9614	0.0160		310.3402
<b>Total</b>	<b>0.2161</b>	<b>0.6580</b>	<b>3.1592</b>	<b>4.7900e-003</b>	<b>0.3888</b>	<b>7.7500e-003</b>	<b>0.3975</b>	<b>0.1039</b>	<b>7.1100e-003</b>	<b>0.1110</b>	<b>399.8852</b>	<b>399.8852</b>	<b>0.0188</b>		<b>400.2798</b>

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

Category	bldg														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	Net CO2	CH4	N2O	CO2e
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4843	1.4843		1.4048	1.4048	2,609.9390	2,609.9390	0.6387		2,623.3517
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4843</b>	<b>1.4843</b>		<b>1.4048</b>	<b>1.4048</b>	<b>2,609.9390</b>	<b>2,609.9390</b>	<b>0.6387</b>		<b>2,623.3517</b>

**3.5 Building Construction - 2018  
Unmitigated Construction Off-Site**

Category	bldg														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	Net CO2	CH4	N2O	CO2e
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
Vendor	0.0588	0.3698	0.9462	9.2000e-004	0.0249	4.7600e-003	0.0297	7.1000e-003	4.3700e-003	0.0115	88.3710	88.3710	7.4000e-004		88.3865
Worker	0.1278	0.2246	1.8772	3.8700e-003	0.3548	2.4800e-003	0.3573	0.0958	2.2600e-003	0.0990	298.3793	298.3793	0.0163		298.7218
<b>Total</b>	<b>0.1966</b>	<b>0.5946</b>	<b>2.8234</b>	<b>4.7900e-003</b>	<b>0.3888</b>	<b>7.2100e-003</b>	<b>0.3970</b>	<b>0.1039</b>	<b>6.6300e-003</b>	<b>0.1105</b>	<b>386.7503</b>	<b>386.7503</b>	<b>0.0171</b>		<b>387.0853</b>

**Mitigated Construction On-Site**

Category	bldg														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	Net CO2	CH4	N2O	CO2e
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4843	1.4843		1.4048	1.4048	2,609.9399	2,609.9399	0.6387		2,623.3517
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4843</b>	<b>1.4843</b>		<b>1.4048</b>	<b>1.4048</b>	<b>2,609.9399</b>	<b>2,609.9399</b>	<b>0.6387</b>		<b>2,623.3517</b>

**3.5 Building Construction - 2018**  
**Mitigated Construction Off-Site**

Category	lb/day											lb/day				CO2e
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBio-CO2	Total CO2	CH4	N2O	
Hauling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Vendor	0.0588	0.3698	0.8462	9.2000e-004	0.0249	4.7600e-003	0.0297	7.1000e-003	4.3700e-003	0.0115	88.3710	88.3710	7.4000e-004	88.3865		88.3865
Worker	0.1276	0.2246	1.8772	3.8700e-003	0.3546	2.4600e-003	0.3573	0.0968	2.2600e-003	0.0990	298.3793	298.3793	0.0163	298.7218		298.7218
<b>Total</b>	<b>0.1866</b>	<b>0.6946</b>	<b>2.8234</b>	<b>4.7900e-003</b>	<b>0.3898</b>	<b>7.2100e-003</b>	<b>0.3970</b>	<b>0.1039</b>	<b>6.6300e-003</b>	<b>0.1105</b>	<b>386.7503</b>	<b>386.7503</b>	<b>0.0171</b>	<b>387.1053</b>		<b>387.1053</b>

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

Category	lb/day											lb/day				CO2e
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBio-CO2	Total CO2	CH4	N2O	
Off-Road	1.6114	17.1628	14.6944	0.0223	0.9386	0.9386	0.9386	0.8635	0.8635	0.8635	2,245.2695	2,245.2695	0.6990	2,250.9481		2,250.9481
Paving	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>1.6114</b>	<b>17.1628</b>	<b>14.6944</b>	<b>0.0223</b>	<b>0.9386</b>	<b>0.9386</b>	<b>0.9386</b>	<b>0.8635</b>	<b>0.8635</b>	<b>0.8635</b>	<b>2,245.2695</b>	<b>2,245.2695</b>	<b>0.6990</b>	<b>2,250.9481</b>		<b>2,250.9481</b>

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

Category	lb/day											lb/day				CO2e
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBio-CO2	Total CO2	CH4	N2O	
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	0.0491	0.0865	0.7220	1.4600e-003	0.1403	9.4000e-004	0.1413	0.0372	8.7000e-004	0.0381	114.7613	114.7613	6.2700e-003	114.8930		114.8930
<b>Total</b>	<b>0.0491</b>	<b>0.0865</b>	<b>0.7220</b>	<b>1.4600e-003</b>	<b>0.1403</b>	<b>9.4000e-004</b>	<b>0.1413</b>	<b>0.0372</b>	<b>8.7000e-004</b>	<b>0.0381</b>	<b>114.7613</b>	<b>114.7613</b>	<b>6.2700e-003</b>	<b>114.9330</b>		<b>114.9330</b>

**Mitigated Construction On-Site**

Category	lb/day											lb/day				CO2e
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBio-CO2	Total CO2	CH4	N2O	
Off-Road	1.6114	17.1628	14.6944	0.0223	0.9386	0.9386	0.9386	0.8635	0.8635	0.8635	2,245.2695	2,245.2695	0.6990	2,250.9481		2,250.9481
Paving	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>1.6114</b>	<b>17.1628</b>	<b>14.6944</b>	<b>0.0223</b>	<b>0.9386</b>	<b>0.9386</b>	<b>0.9386</b>	<b>0.8635</b>	<b>0.8635</b>	<b>0.8635</b>	<b>2,245.2695</b>	<b>2,245.2695</b>	<b>0.6990</b>	<b>2,250.9481</b>		<b>2,250.9481</b>

**3.6 Paving - 2018**

**Mitigated Construction Off-Site**

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0481	0.0865	0.7220	1.4800e-003	0.1403	9.4000e-004	0.1413	0.0372	8.7000e-004	0.0381	114.7613	114.7613	6.2700e-003			114.8930
<b>Total</b>	<b>0.0481</b>	<b>0.0865</b>	<b>0.7220</b>	<b>1.4900e-003</b>	<b>0.1403</b>	<b>9.4000e-004</b>	<b>0.1413</b>	<b>0.0372</b>	<b>8.7000e-004</b>	<b>0.0381</b>	<b>114.7613</b>	<b>114.7613</b>	<b>6.2700e-003</b>			<b>114.8930</b>

**3.7 Architectural Coating - 2018**

**Unmitigated Construction On-Site**

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	175.8380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2886	2.0658	1.8542	2.9700e-003		0.1506	0.1506	0.1506	0.1506	0.1506	281.4485	281.4485	0.0287			282.0102
<b>Total</b>	<b>176.1266</b>	<b>2.0658</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>0.1506</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0287</b>			<b>282.0102</b>

**3.7 Architectural Coating - 2018**

**Mitigated Construction Off-Site**

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0282	0.0481	0.3851	7.9000e-004	0.0748	5.0000e-004	0.0753	0.0199	4.6000e-004	0.0203	61.2060	61.2060	3.3500e-003			61.2763
<b>Total</b>	<b>0.0282</b>	<b>0.0481</b>	<b>0.3851</b>	<b>7.9000e-004</b>	<b>0.0748</b>	<b>5.0000e-004</b>	<b>0.0753</b>	<b>0.0199</b>	<b>4.6000e-004</b>	<b>0.0203</b>	<b>61.2060</b>	<b>61.2060</b>	<b>3.3500e-003</b>			<b>61.2763</b>

**Mitigated Construction On-Site**

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	175.8380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2886	2.0658	1.8542	2.9700e-003		0.1506	0.1506	0.1506	0.1506	0.1506	281.4485	281.4485	0.0287			282.0102
<b>Total</b>	<b>176.1266</b>	<b>2.0658</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>0.1506</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0287</b>			<b>282.0102</b>

**3.7 Architectural Coating - 2018  
Mitigated Construction Off-Site**

Category	b/day														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0282	0.0481	0.3851	7.9000e-004	0.0748	5.0000e-004	0.0753	0.0199	4.6000e-004	0.0203	61.2060	61.2060	3.3500e-003		61.2763
<b>Total</b>	<b>0.0282</b>	<b>0.0481</b>	<b>0.3851</b>	<b>7.9000e-004</b>	<b>0.0748</b>	<b>5.0000e-004</b>	<b>0.0753</b>	<b>0.0199</b>	<b>4.6000e-004</b>	<b>0.0203</b>	<b>61.2060</b>	<b>61.2060</b>	<b>3.3500e-003</b>		<b>61.2763</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	b/day														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	Total CO2	CH4	N2O	CO2e
Mitigated	1.7427	4.1952	19.3541	0.0359	2.7342	0.0486	2.7829	0.7309	0.0448	0.7757	2,945.5488	2,945.5488	0.1310		2,948.2987
Unmitigated	1.7427	4.1952	19.3541	0.0359	2.7342	0.0486	2.7829	0.7309	0.0448	0.7757	2,945.5488	2,945.5488	0.1310		2,948.2987

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Condo/Townhouse	309.73	336.52	285.29	855,512	855,512
Single Family Housing	124.41	131.04	114.01	341,778	341,778
<b>Total</b>	<b>434.14</b>	<b>467.56</b>	<b>399.30</b>	<b>1,197,290</b>	<b>1,197,290</b>

**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	
Condo/Townhouse	12.30	5.90	6.40	37.50	15.00	47.50	86	11	3	
Single Family Housing	12.30	5.90	6.40	37.50	15.00	47.50	86	11	3	

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.488428	0.036082	0.211732	0.154986	0.049882	0.007459	0.020077	0.014399	0.001917	0.002182	0.008131	0.001989	0.0003196

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e	
Natural Gas Mitigated	0.0281	0.2483	0.1057	1.5900e-003		0.0201	0.0201	0.0201	0.0201	0.0201	317.0120	317.0120	317.0120	6.0900e-003		5.8100e-003	318.9413
Natural Gas Unmitigated	0.0331	0.2826	0.1203	1.8000e-003		0.0229	0.0229	0.0229	0.0229	0.0229	360.7634	360.7634	360.7634	6.5100e-003		6.5100e-003	362.8490

**5.2 Energy by Land Use - Natural Gas Unmitigated**

Land Use	Natural Gas Use ABTU/yr	lb/day															
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
Single Family Housing	1028.73	0.0111	0.0948	0.0403	6.1000e-004	7.6700e-003	7.6700e-003	7.6700e-003	7.6700e-003	7.6700e-003	121.0288	121.0288	121.0288	2.3200e-003		2.2200e-003	121.7653
Condo/Townhouse	2037.76	0.0220	0.1878	0.0799	1.2000e-003	0.0152	0.0152	0.0152	0.0152	0.0152	238.7367	238.7367	238.7367	4.5900e-003		4.4000e-003	241.1957
<b>Total</b>		<b>0.0331</b>	<b>0.2826</b>	<b>0.1203</b>	<b>1.8100e-003</b>	<b>0.0229</b>	<b>0.0229</b>	<b>0.0229</b>	<b>0.0229</b>	<b>0.0229</b>	<b>360.7634</b>	<b>360.7634</b>	<b>360.7634</b>	<b>6.9100e-003</b>		<b>6.6200e-003</b>	<b>362.9590</b>

**5.2 Energy by Land Use - Natural Gas Mitigated**

Land Use	Natural Gas Use ABTU/yr	lb/day															
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
Condo/Townhouse	1.7891	0.0193	0.1648	0.0702	1.0500e-003	0.0133	0.0133	0.0133	0.0133	0.0133	210.4819	210.4819	210.4819	4.0300e-003		3.8600e-003	211.7629
Single Family Housing	0.9055008	0.7700e-003	0.0835	0.0355	5.3000e-004	6.7500e-003	6.7500e-003	6.7500e-003	6.7500e-003	6.7500e-003	106.5301	106.5301	106.5301	2.0400e-003		1.9500e-003	107.1785
<b>Total</b>		<b>0.0291</b>	<b>0.2483</b>	<b>0.1057</b>	<b>1.6000e-003</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0261</b>	<b>317.0120</b>	<b>317.0120</b>	<b>317.0120</b>	<b>6.0700e-003</b>		<b>5.8100e-003</b>	<b>318.9413</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
Mitigated	3.5227	0.0579	4.9851	2.6000e-004		0.0272	0.0272	0.0272	0.0272	0.0272	8.9131	8.9131	8.9131	8.8300e-003	0.0000	9.0986
Unmitigated	3.5227	0.0579	4.9851	2.6000e-004		0.0272	0.0272	0.0272	0.0272	0.0272	8.9131	8.9131	8.9131	8.8300e-003	0.0000	9.0986

**6.2 Area by SubCategory**  
**Unmitigated**

SubCategory	lb/day										lb/day					
	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	B16-CO2	NS16-CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	0.9635					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4655					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Health	0.0000	0.0000	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	0.1537	0.0579	4.9851	2.6000e-004		0.0272	0.0272		0.0272	0.0272	8.9131	8.9131	8.9131	8.8300e-003	9.0986	
<b>Total</b>	<b>3.5227</b>	<b>0.0579</b>	<b>4.9851</b>	<b>2.6000e-004</b>		<b>0.0272</b>	<b>0.0272</b>		<b>0.0272</b>	<b>0.0272</b>	<b>0.0000</b>	<b>8.9131</b>	<b>8.9131</b>	<b>8.8300e-003</b>	<b>9.0986</b>	

**6.2 Area by SubCategory**  
**Mitigated**

SubCategory	lb/day										lb/day					
	ROG	Nox	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	B16-CO2	NS16-CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	0.9635					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4655					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Health	0.0000	0.0000	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	0.1537	0.0579	4.9851	2.6000e-004		0.0272	0.0272		0.0272	0.0272	8.9131	8.9131	8.9131	8.8300e-003	9.0986	
<b>Total</b>	<b>3.5227</b>	<b>0.0579</b>	<b>4.9851</b>	<b>2.6000e-004</b>		<b>0.0272</b>	<b>0.0272</b>		<b>0.0272</b>	<b>0.0272</b>	<b>0.0000</b>	<b>8.9131</b>	<b>8.9131</b>	<b>8.8300e-003</b>	<b>9.0986</b>	

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

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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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