

**APPENDIX F**

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**GHG Model Outputs**



Lancaster Health District (All Sub Areas - Antelope Valley APCD Air District, Annual

**Lancaster Health District (Existing)  
Antelope Valley APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	230.00	1000sqft	5.28	230,000.00	0
Hospital	420.00	Bed	6.90	300,618.18	0
Apartments Low Rise	376.00	Dwelling Unit	23.50	376,000.00	1075
Single Family Housing	59.00	Dwelling Unit	19.16	106,200.00	169
General Office Building	394.43	1000sqft	9.05	394,430.00	0
Regional Shopping Center	646.00	1000sqft	38.39	646,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

NOTE: Only operational emissions were used during this phase. To avoid confusion, portions of this output related to construction were removed.

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

Project Characteristics -

Land Use - According to Trip Generation estimates for the entire project

Construction Phase - Operation only

Off-road Equipment - Short construction period

Off-road Equipment - Operation only

Trips and VMT -

Demolition -

Grading - Project description

Vehicle Trips - Based on weekday trip rates from Traffic Study; weekend trip rates adjusted based on default ratio for each land use

Woodstoves - No woodstoves

Water And Wastewater -

Solid Waste -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	PhaseEndDate	10/4/2019	12/30/2018
tblLandUse	LotAcreage	14.83	38.39
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	270.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	45.00
tblStationaryBoilersUse	DailyHeatInput	0.00	0.70
tblStationaryBoilersUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00

tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00

## 2.0 Emissions Summary

### 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	37.9892	0.5708	36.9538	0.0612		4.7418	4.7418		4.7418	4.7418	449.3366	193.7515	643.0881	0.4199	0.0353	664.1186
Energy	0.1876	1.6827	1.2652	0.0102		0.1296	0.1296		0.1296	0.1296	0.0000	10,067.8963	10,067.8963	0.3746	0.1042	10,108.3054
Mobile	16.7892	81.5990	183.6800	0.4698	33.2957	0.5275	33.8232	8.9292	0.4962	9.4254	0.0000	43,067.8340	43,067.8340	2.2193	0.0000	43,123.3158
Stationary	7.6100e-003	0.0230	0.0483	1.9000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	31.6729	31.6729	9.5000e-004	0.0000	31.6968
Waste						0.0000	0.0000		0.0000	0.0000	1,014.5021	0.0000	1,014.5021	59.9554	0.0000	2,513.3861
Water						0.0000	0.0000		0.0000	0.0000	67.5366	1,247.2428	1,314.7794	6.9881	0.1744	1,541.4670
<b>Total</b>	<b>54.9736</b>	<b>83.8755</b>	<b>221.9473</b>	<b>0.5415</b>	<b>33.2957</b>	<b>5.4018</b>	<b>38.6975</b>	<b>8.9292</b>	<b>5.3705</b>	<b>14.2997</b>	<b>1,531.3753</b>	<b>54,608.3975</b>	<b>56,139.7728</b>	<b>69.9582</b>	<b>0.3140</b>	<b>57,982.2897</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	tons/yr										MT/yr					

Area	37.9892	0.5708	36.9538	0.0612		4.7418	4.7418		4.7418	4.7418	449.3366	193.7515	643.0881	0.4199	0.0353	664.1186
Energy	0.1876	1.6827	1.2652	0.0102		0.1296	0.1296		0.1296	0.1296	0.0000	10,054.8211	10,054.8211	0.3740	0.1041	10,095.1835
Mobile	16.7892	81.5990	183.6800	0.4698	33.2957	0.5275	33.8232	8.9292	0.4962	9.4254	0.0000	43,067.8340	43,067.8340	2.2193	0.0000	43,123.3158
Stationary	7.6100e-003	0.0230	0.0483	1.9000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	31.6729	31.6729	9.5000e-004	0.0000	31.6968
Waste						0.0000	0.0000		0.0000	0.0000	1,014.5021	0.0000	1,014.5021	59.9554	0.0000	2,513.3861
Water						0.0000	0.0000		0.0000	0.0000	67.5366	1,247.2428	1,314.7794	6.9881	0.1744	1,541.4670
<b>Total</b>	<b>54.9736</b>	<b>83.8755</b>	<b>221.9473</b>	<b>0.5415</b>	<b>33.2957</b>	<b>5.4018</b>	<b>38.6975</b>	<b>8.9292</b>	<b>5.3705</b>	<b>14.2997</b>	<b>1,531.3753</b>	<b>54,595.3223</b>	<b>56,126.6976</b>	<b>69.9577</b>	<b>0.3138</b>	<b>57,969.1677</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	0.02	0.02	0.00	0.04	0.02

## 2.3 Vegetation

### Vegetation

	CO2e
Category	MT
New Trees	0.0000
Vegetation Land Change	0.0000
<b>Total</b>	<b>0.0000</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	16.7892	81.5990	183.6800	0.4698	33.2957	0.5275	33.8232	8.9292	0.4962	9.4254	0.0000	43,067.8340	43,067.8340	2.2193	0.0000	43,123.3158
Unmitigated	16.7892	81.5990	183.6800	0.4698	33.2957	0.5275	33.8232	8.9292	0.4962	9.4254	0.0000	43,067.8340	43,067.8340	2.2193	0.0000	43,123.3158

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,477.84	2,692.16	2282.32	7,044,991	7,044,991
Medical Office Building	8,309.90	2,060.80	356.50	12,293,430	12,293,430
General Office Building	4,350.56	970.30	414.15	7,898,906	7,898,906
Hospital	5,434.80	3,418.80	3019.80	12,093,028	12,093,028
Regional Shopping Center	27,584.20	32,280.62	16305.04	46,714,718	46,714,718
Single Family Housing	561.68	584.69	508.58	1,583,030	1,583,030
<b>Total</b>	<b>48,718.98</b>	<b>42,007.37</b>	<b>22,886.39</b>	<b>87,628,103</b>	<b>87,628,103</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
Apartments Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.600819	0.039944	0.152792	0.114199	0.019665	0.005435	0.017326	0.034891	0.002097	0.001901	0.007823	0.001574	0.001535
Apartments Low Rise	0.600819	0.039944	0.152792	0.114199	0.019665	0.005435	0.017326	0.034891	0.002097	0.001901	0.007823	0.001574	0.001535
General Office Building	0.600819	0.039944	0.152792	0.114199	0.019665	0.005435	0.017326	0.034891	0.002097	0.001901	0.007823	0.001574	0.001535
Hospital	0.600819	0.039944	0.152792	0.114199	0.019665	0.005435	0.017326	0.034891	0.002097	0.001901	0.007823	0.001574	0.001535
Regional Shopping Center	0.600819	0.039944	0.152792	0.114199	0.019665	0.005435	0.017326	0.034891	0.002097	0.001901	0.007823	0.001574	0.001535
Single Family Housing	0.600819	0.039944	0.152792	0.114199	0.019665	0.005435	0.017326	0.034891	0.002097	0.001901	0.007823	0.001574	0.001535

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	8,198.1585	8,198.1585	0.3385	0.0700	8,227.4876
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,211.2336	8,211.2336	0.3390	0.0701	8,240.6096
NaturalGas Mitigated	0.1876	1.6827	1.2652	0.0102		0.1296	0.1296		0.1296	0.1296	0.0000	1,856.6626	1,856.6626	0.0356	0.0340	1,867.6959
NaturalGas Unmitigated	0.1876	1.6827	1.2652	0.0102		0.1296	0.1296		0.1296	0.1296	0.0000	1,856.6626	1,856.6626	0.0356	0.0340	1,867.6959

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated



	Natural Gas 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					
Apartments Low Rise	6.14375e+006	0.0331	0.2831	0.1205	1.8100e-003		0.0229	0.0229		0.0229	0.0229	0.0000	327.8541	327.8541	6.2800e-003	6.0100e-003	329.8024
General Office Building	4.10602e+006	0.0221	0.2013	0.1691	1.2100e-003		0.0153	0.0153		0.0153	0.0153	0.0000	219.1127	219.1127	4.2000e-003	4.0200e-003	220.4147
Hospital	1.9468e+007	0.1050	0.9543	0.8016	5.7300e-003		0.0725	0.0725		0.0725	0.0725	0.0000	1,038.8884	1,038.8884	0.0199	0.0191	1,045.0620
Medical Office Building	2.3943e+006	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.0000	127.7690	127.7690	2.4500e-003	2.3400e-003	128.5282
Regional Shopping Center	1.05944e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5358	56.5358	1.0800e-003	1.0400e-003	56.8717
Single Family Housing	1.621e+006	8.7400e-003	0.0747	0.0318	4.8000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	86.5028	86.5028	1.6600e-003	1.5900e-003	87.0168
<b>Total</b>		<b>0.1876</b>	<b>1.6827</b>	<b>1.2652</b>	<b>0.0102</b>		<b>0.1296</b>	<b>0.1296</b>		<b>0.1296</b>	<b>0.1296</b>	<b>0.0000</b>	<b>1,856.6627</b>	<b>1,856.6627</b>	<b>0.0356</b>	<b>0.0341</b>	<b>1,867.6959</b>

**Mitigated**

	Natural Gas 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					
Apartments Low Rise	6.14375e+006	0.0331	0.2831	0.1205	1.8100e-003		0.0229	0.0229		0.0229	0.0229	0.0000	327.8541	327.8541	6.2800e-003	6.0100e-003	329.8024
General Office Building	4.10602e+006	0.0221	0.2013	0.1691	1.2100e-003		0.0153	0.0153		0.0153	0.0153	0.0000	219.1127	219.1127	4.2000e-003	4.0200e-003	220.4147
Hospital	1.9468e+007	0.1050	0.9543	0.8016	5.7300e-003		0.0725	0.0725		0.0725	0.0725	0.0000	1,038.8884	1,038.8884	0.0199	0.0191	1,045.0620
Medical Office Building	2.3943e+006	0.0129	0.1174	0.0986	7.0000e-004		8.9200e-003	8.9200e-003		8.9200e-003	8.9200e-003	0.0000	127.7690	127.7690	2.4500e-003	2.3400e-003	128.5282
Regional Shopping Center	1.05944e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5358	56.5358	1.0800e-003	1.0400e-003	56.8717
Single Family Housing	1.621e+006	8.7400e-003	0.0747	0.0318	4.8000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	86.5028	86.5028	1.6600e-003	1.5900e-003	87.0168
<b>Total</b>		<b>0.1876</b>	<b>1.6827</b>	<b>1.2652</b>	<b>0.0102</b>		<b>0.1296</b>	<b>0.1296</b>		<b>0.1296</b>	<b>0.1296</b>	<b>0.0000</b>	<b>1,856.6627</b>	<b>1,856.6627</b>	<b>0.0356</b>	<b>0.0341</b>	<b>1,867.6959</b>

## 5.3 Energy by Land Use - Electricity

### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.59439e+006	508.0057	0.0210	4.3400e-003	509.8232
General Office Building	5.12365e+006	1,632.5033	0.0674	0.0139	1,638.3436
Hospital	6.86011e+006	2,185.7770	0.0902	0.0187	2,193.5967
Medical Office Building	2.9877e+006	951.9452	0.0393	8.1300e-003	955.3508
Regional Shopping Center	8.721e+006	2,778.6974	0.1147	0.0237	2,788.6383
Single Family Housing	484289	154.3049	6.3700e-003	1.3200e-003	154.8569
<b>Total</b>		<b>8,211.2336</b>	<b>0.3390</b>	<b>0.0701</b>	<b>8,240.6095</b>

### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.55335e+006	494.9306	0.0204	4.2300e-003	496.7012
General Office Building	5.12365e+006	1,632.5033	0.0674	0.0139	1,638.3436
Hospital	6.86011e+006	2,185.7770	0.0902	0.0187	2,193.5967
Medical Office Building	2.9877e+006	951.9452	0.0393	8.1300e-003	955.3508
Regional Shopping Center	8.721e+006	2,778.6974	0.1147	0.0237	2,788.6383

Single Family Housing	484289	154.3049	6.3700e-003	1.3200e-003	154.8569
Total		8,198.1585	0.3385	0.0700	8,227.4876

## 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	37.9892	0.5708	36.9538	0.0612		4.7418	4.7418		4.7418	4.7418	449.3366	193.7515	643.0881	0.4199	0.0353	664.1186
Unmitigated	37.9892	0.5708	36.9538	0.0612		4.7418	4.7418		4.7418	4.7418	449.3366	193.7515	643.0881	0.4199	0.0353	664.1186

### 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	2.5748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.0190					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	27.2946	0.5330	33.6922	0.0610		4.7240	4.7240		4.7240	4.7240	449.3366	188.4452	637.7818	0.4147	0.0353	658.6808

Landscaping	0.1009	0.0377	3.2616	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.3062	5.3062	5.2600e-003	0.0000	5.4378
<b>Total</b>	<b>37.9892</b>	<b>0.5708</b>	<b>36.9538</b>	<b>0.0612</b>		<b>4.7418</b>	<b>4.7418</b>		<b>4.7418</b>	<b>4.7418</b>	<b>449.3366</b>	<b>193.7515</b>	<b>643.0881</b>	<b>0.4199</b>	<b>0.0353</b>	<b>664.1186</b>

**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	2.5748						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	8.0190						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	27.2946	0.5330	33.6922	0.0610			4.7240	4.7240		4.7240	4.7240	449.3366	188.4452	637.7818	0.4147	0.0353	658.6808
Landscaping	0.1009	0.0377	3.2616	1.7000e-004			0.0178	0.0178		0.0178	0.0178	0.0000	5.3062	5.3062	5.2600e-003	0.0000	5.4378
<b>Total</b>	<b>37.9892</b>	<b>0.5708</b>	<b>36.9538</b>	<b>0.0612</b>			<b>4.7418</b>	<b>4.7418</b>		<b>4.7418</b>	<b>4.7418</b>	<b>449.3366</b>	<b>193.7515</b>	<b>643.0881</b>	<b>0.4199</b>	<b>0.0353</b>	<b>664.1186</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,314.7794	6.9881	0.1744	1,541.4670
Unmitigated	1,314.7794	6.9881	0.1744	1,541.4670

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	24.4979 / 15.4443	164.0794	0.8047	0.0202	190.2122
General Office Building	70.1035 / 42.9667	465.1810	2.3026	0.0577	539.9472
Hospital	37.7217 / 7.18509	193.9005	1.2367	0.0306	233.9294
Medical Office Building	28.8605 / 5.49724	148.3514	0.9462	0.0234	178.9771
Regional Shopping Center	47.8508 / 29.3279	317.5205	1.5717	0.0394	368.5540
Single Family Housing	3.84409 / 2.42345	25.7465	0.1263	3.1700e-003	29.8471
<b>Total</b>		<b>1,314.7794</b>	<b>6.9881</b>	<b>0.1744</b>	<b>1,541.4670</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	24.4979 / 15.4443	164.0794	0.8047	0.0202	190.2122
General Office Building	70.1035 / 42.9667	465.1810	2.3026	0.0577	539.9472
Hospital	37.7217 / 7.18509	193.9005	1.2367	0.0306	233.9294

Medical Office Building	28.8605 / 5.49724	148.3514	0.9462	0.0234	178.9771
Regional Shopping Center	47.8508 / 29.3279	317.5205	1.5717	0.0394	368.5540
Single Family Housing	3.84409 / 2.42345	25.7465	0.1263	3.1700e-003	29.8471
<b>Total</b>		<b>1,314.7794</b>	<b>6.9881</b>	<b>0.1744</b>	<b>1,541.4670</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,014.5021	59.9554	0.0000	2,513.3861
Unmitigated	1,014.5021	59.9554	0.0000	2,513.3861

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	172.96	35.1093	2.0749	0.0000	86.9819

General Office Building	366.82	74.4611	4.4005	0.0000	184.4743
Hospital	1226.4	248.9481	14.7124	0.0000	616.7584
Medical Office Building	2484	504.2296	29.7991	0.0000	1,249.2074
Regional Shopping Center	678.3	137.6888	8.1372	0.0000	341.1181
Single Family Housing	69.29	14.0652	0.8312	0.0000	34.8461
<b>Total</b>		<b>1,014.5021</b>	<b>59.9554</b>	<b>0.0000</b>	<b>2,513.3861</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	172.96	35.1093	2.0749	0.0000	86.9819
General Office Building	366.82	74.4611	4.4005	0.0000	184.4743
Hospital	1226.4	248.9481	14.7124	0.0000	616.7584
Medical Office Building	2484	504.2296	29.7991	0.0000	1,249.2074
Regional Shopping Center	678.3	137.6888	8.1372	0.0000	341.1181
Single Family Housing	69.29	14.0652	0.8312	0.0000	34.8461
<b>Total</b>		<b>1,014.5021</b>	<b>59.9554</b>	<b>0.0000</b>	<b>2,513.3861</b>

**9.0 Operational Offroad**

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

## Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	50	50	0.73	Diesel

## Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	0.7	270	45	CNG

## User Defined Equipment

Equipment Type	Number
----------------	--------

## 10.1 Stationary Sources

### Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (5 - 75 MMBTU)	1.4600e-003	2.9700e-003	0.0259	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8170	28.8170	5.5000e-004	0.0000	28.8308
Emergency Generator - Diesel (50 - 75 HP)	6.1500e-003	0.0201	0.0223	3.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	2.8560	2.8560	4.0000e-004	0.0000	2.8660
<b>Total</b>	<b>7.6100e-003</b>	<b>0.0230</b>	<b>0.0483</b>	<b>1.9000e-004</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>31.6729</b>	<b>31.6729</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>31.6968</b>

## 11.0 Vegetation

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

## 11.1 Vegetation Land Change

### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Others	0 / 0	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>

## 11.2 Net New Trees

### Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Mixed Hardwood	0	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>

**APPENDIX F.2**

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**Proposed Buildout (Annual)**

Lancaster Health District (All Sub Areas - Antelope Valley APCD Air District, Annual

**Lancaster Health District (All Sub Areas  
Antelope Valley APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	600.00	1000sqft	13.77	600,000.00	0
Hospital	300.00	Bed	4.93	700,000.00	0
Hospital	364.00	Bed	5.98	260,535.76	0
Unenclosed Parking with Elevator	1,100.00	Space	9.90	440,000.00	0
High Turnover (Sit Down Restaurant)	91.00	1000sqft	2.09	91,000.00	0
Hotel	180.00	Room	6.00	329,200.00	0
Apartments Low Rise	1,350.00	Dwelling Unit	84.38	1,350,000.00	3861
Congregate Care (Assisted Living)	400.00	Dwelling Unit	25.00	400,000.00	1144
Single Family Housing	250.00	Dwelling Unit	81.17	450,000.00	715
Regional Shopping Center	151.00	1000sqft	3.47	151,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9	<b>Operational Year</b>		2040	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - According to Trip Generation estimates for the entire project

Construction Phase - Default construction assumption  
Paving and architectural coating to take place intermittently

Off-road Equipment - Short construction period

Off-road Equipment - Short construction period

Off-road Equipment - Short construction period

Off-road Equipment - Short construction period

Off-road Equipment - Short construction period

Demolition - Demolition of existing hospital and partial demolition of commercial uses.

Grading - Project description

Vehicle Trips - Based on weekday trip rates from Traffic Study; weekend trip rates adjusted based on default ratio for each land use

Woodstoves - No woodstoves

Water And Wastewater -

Solid Waste -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. Air Basin recommends Tier 3 with Level 3 DPF at the minimum

Mobile Land Use Mitigation - Metrolink station located approximately 1 mile to the east

Area Mitigation - AVAQMD Rule 1113 VOC limit of 50 grams per liter (g/L) for flats, 100 g/L for non-flat, and those used for traffic coating would meet the 100 g/L VOC limit

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Off-road Equipment - Short construction period

Trips and VMT - Haul trips are Round Trips

Table Name	Column Name	Default Value	New Value
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tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	330.00	1,260.00
tblConstructionPhase	NumDays	4,650.00	1,305.00
tblConstructionPhase	NumDays	465.00	270.00
tblConstructionPhase	NumDays	330.00	1,240.00
tblConstructionPhase	NumDays	180.00	267.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberWood	472.50	0.00
tblFireplaces	NumberWood	140.00	0.00
tblFireplaces	NumberWood	87.50	0.00
tblGrading	AcresOfGrading	1,350.00	675.00
tblGrading	AcresOfGrading	0.00	110.00
tblLandUse	LandUseSquareFeet	214,727.27	700,000.00
tblLandUse	LandUseSquareFeet	261,360.00	329,200.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	500.00
tblTripsAndVMT	HaulingTripNumber	4,594.00	9,188.00
tblTripsAndVMT	WorkerTripNumber	30.00	15.00
tblTripsAndVMT	WorkerTripNumber	35.00	18.00
tblTripsAndVMT	WorkerTripNumber	40.00	20.00
tblTripsAndVMT	WorkerTripNumber	30.00	15.00
tblVehicleTrips	WD_TR	6.59	7.32
tblVehicleTrips	WD_TR	2.74	4.27
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	127.15	112.18
tblVehicleTrips	WD_TR	12.94	22.32
tblVehicleTrips	WD_TR	8.17	8.36

tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	67.50	0.00
tblWoodstoves	NumberCatalytic	20.00	0.00
tblWoodstoves	NumberCatalytic	12.50	0.00
tblWoodstoves	NumberNoncatalytic	67.50	0.00
tblWoodstoves	NumberNoncatalytic	20.00	0.00
tblWoodstoves	NumberNoncatalytic	12.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4369	4.6541	2.9883	6.8800e-003	0.2947	0.2061	0.5007	0.0529	0.1915	0.2444	0.0000	615.9403	615.9403	0.1322	0.0000	619.2453
2022	0.7608	7.9533	5.4702	0.0123	2.0859	0.3585	2.4445	0.9851	0.3319	1.3170	0.0000	1,094.6433	1,094.6433	0.2673	0.0000	1,101.3248
2023	0.7559	7.7568	5.6479	0.0121	4.1093	0.3428	4.4520	2.0694	0.3154	2.3847	0.0000	1,065.4001	1,065.4001	0.3398	0.0000	1,073.8938
2024	1.0414	9.1742	9.1644	0.0270	2.3502	0.3016	2.6517	0.8881	0.2785	1.1665	0.0000	2,433.6562	2,433.6562	0.4075	0.0000	2,443.8430
2025	12.0934	12.9878	18.2996	0.0612	3.3385	0.2839	3.6224	0.8995	0.2651	1.1647	0.0000	5,596.8043	5,596.8043	0.4467	0.0000	5,607.9705



2026	14.0988	12.9708	18.0183	0.0611	3.4170	0.2872	3.7042	0.9204	0.2684	1.1887	0.0000	5,584.0518	5,584.0518	0.4447	0.0000	5,595.1688
2027	14.0437	12.8652	17.4343	0.0602	3.4170	0.2860	3.7030	0.9204	0.2672	1.1876	0.0000	5,502.8078	5,502.8078	0.4389	0.0000	5,513.7804
2028	13.9324	12.7282	16.8499	0.0592	3.4039	0.2835	3.6874	0.9168	0.2649	1.1818	0.0000	5,410.0733	5,410.0733	0.4321	0.0000	5,420.8750
2029	13.4646	9.2394	12.3017	0.0432	2.5594	0.2118	2.7712	0.6889	0.1981	0.8870	0.0000	3,947.7276	3,947.7276	0.3166	0.0000	3,955.6421
<b>Maximum</b>	<b>14.0988</b>	<b>12.9878</b>	<b>18.2996</b>	<b>0.0612</b>	<b>4.1093</b>	<b>0.3585</b>	<b>4.4520</b>	<b>2.0694</b>	<b>0.3319</b>	<b>2.3847</b>	<b>0.0000</b>	<b>5,596.8043</b>	<b>5,596.8043</b>	<b>0.4467</b>	<b>0.0000</b>	<b>5,607.9705</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					
2021	0.1411	2.9212	3.3987	6.8800e-003	0.1442	0.0184	0.1626	0.0301	0.0183	0.0485	0.0000	615.9398	615.9398	0.1322	0.0000	619.2447
2022	0.2668	5.4194	6.4557	0.0123	0.7108	0.0362	0.7470	0.3232	0.0361	0.3593	0.0000	1,094.6423	1,094.6423	0.2673	0.0000	1,101.3237
2023	0.3006	5.8908	7.2103	0.0121	1.2955	0.0416	1.3371	0.6492	0.0416	0.6908	0.0000	1,065.3988	1,065.3988	0.3398	0.0000	1,073.8925
2024	0.6664	8.7906	10.9608	0.0270	1.3374	0.0538	1.3912	0.4401	0.0533	0.4934	0.0000	2,433.6548	2,433.6548	0.4075	0.0000	2,443.8416
2025	11.7968	14.1924	19.4728	0.0612	3.3385	0.0890	3.4276	0.8995	0.0871	0.9866	0.0000	5,596.8029	5,596.8029	0.4467	0.0000	5,607.9690
2026	13.7962	14.1927	19.2006	0.0611	3.4170	0.0898	3.5067	0.9204	0.0878	1.0082	0.0000	5,584.0504	5,584.0504	0.4447	0.0000	5,595.1674
2027	13.7412	14.0871	18.6167	0.0602	3.4170	0.0886	3.5055	0.9204	0.0867	1.0071	0.0000	5,502.8064	5,502.8064	0.4389	0.0000	5,513.7790
2028	13.6310	13.9454	18.0277	0.0592	3.4039	0.0868	3.4907	0.9168	0.0851	1.0020	0.0000	5,410.0719	5,410.0719	0.4321	0.0000	5,420.8736
2029	13.2365	10.1620	13.1823	0.0432	2.5594	0.0642	2.6236	0.6889	0.0629	0.7518	0.0000	3,947.7266	3,947.7266	0.3166	0.0000	3,955.6421
<b>Maximum</b>	<b>13.7962</b>	<b>14.1927</b>	<b>19.4728</b>	<b>0.0612</b>	<b>3.4170</b>	<b>0.0898</b>	<b>3.5067</b>	<b>0.9204</b>	<b>0.0878</b>	<b>1.0082</b>	<b>0.0000</b>	<b>5,596.8029</b>	<b>5,596.8029</b>	<b>0.4467</b>	<b>0.0000</b>	<b>5,607.9690</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
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Percent Reduction	4.32	0.81	-9.75	0.00	21.43	77.81	26.67	30.60	76.52	40.80	0.00	0.00	0.00	0.00	0.00	0.00
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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	2.5285	1.5186
2	10-1-2021	12-31-2021	2.5298	1.5199
3	1-1-2022	3-31-2022	2.0520	1.4656
4	4-1-2022	6-30-2022	2.0741	1.4812
5	7-1-2022	9-30-2022	2.2133	1.4253
6	10-1-2022	12-31-2022	2.3863	1.3180
7	1-1-2023	3-31-2023	1.9439	1.2890
8	4-1-2023	6-30-2023	1.9656	1.3034
9	7-1-2023	9-30-2023	2.0917	1.5111
10	10-1-2023	12-31-2023	2.4905	2.0741
11	1-1-2024	3-31-2024	2.3174	2.0513
12	4-1-2024	6-30-2024	2.3175	2.0514
13	7-1-2024	9-30-2024	2.4159	2.1964
14	10-1-2024	12-31-2024	3.0761	3.0750
15	1-1-2025	3-31-2025	4.5054	4.7191
16	4-1-2025	6-30-2025	6.8015	7.0305
17	7-1-2025	9-30-2025	6.8763	7.1077
18	10-1-2025	12-31-2025	6.8476	7.0791
19	1-1-2026	3-31-2026	6.6573	6.8837
20	4-1-2026	6-30-2026	6.7591	6.9881
21	7-1-2026	9-30-2026	6.8334	7.0649
22	10-1-2026	12-31-2026	6.8052	7.0367
23	1-1-2027	3-31-2027	6.6178	6.8443
24	4-1-2027	6-30-2027	6.7188	6.9478
25	7-1-2027	9-30-2027	6.7926	7.0241
26	10-1-2027	12-31-2027	6.7649	6.9964
27	1-1-2028	3-31-2028	6.6548	6.8837
28	4-1-2028	6-30-2028	6.6819	6.9109

29	7-1-2028	9-30-2028	6.7553	6.9868
30	10-1-2028	12-31-2028	6.7279	6.9594
31	1-1-2029	3-31-2029	6.5458	6.7722
32	4-1-2029	6-30-2029	6.6453	6.8742
33	7-1-2029	9-30-2029	6.2222	6.4415
		Highest	6.8763	7.1077

## 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	23.4051	0.9190	15.1288	5.5600e-003		0.1429	0.1429		0.1429	0.1429	0.0000	890.7222	890.7222	0.0398	0.0159	896.4513
Energy	0.7111	6.3637	4.6907	0.0388		0.4913	0.4913		0.4913	0.4913	0.0000	22,494.8958	22,494.8958	0.7730	0.2611	22,592.0153
Mobile	6.4536	54.9036	70.2701	0.4016	39.8038	0.1591	39.9629	10.6697	0.1480	10.8178	0.0000	37,299.7586	37,299.7586	1.3324	0.0000	37,333.0692
Stationary	8.3400e-003	0.0245	0.0612	2.7000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	46.0814	46.0814	1.2300e-003	0.0000	46.1121
Waste						0.0000	0.0000		0.0000	0.0000	1,038.5079	0.0000	1,038.5079	61.3741	0.0000	2,572.8593
Water						0.0000	0.0000		0.0000	0.0000	107.8527	2,005.0896	2,112.9423	11.1603	0.2787	2,474.9993
<b>Total</b>	<b>30.5780</b>	<b>62.2109</b>	<b>90.1508</b>	<b>0.4462</b>	<b>39.8038</b>	<b>0.7973</b>	<b>40.6010</b>	<b>10.6697</b>	<b>0.7862</b>	<b>11.4559</b>	<b>1,146.3606</b>	<b>62,736.5475</b>	<b>63,882.9081</b>	<b>74.6809</b>	<b>0.5556</b>	<b>65,915.5064</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
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Category	tons/yr									MT/yr						
	Area	22.0526	0.1709	14.8104	7.9000e-004		0.0824	0.0824		0.0824	0.0824	0.0000	24.3074	24.3074	0.0232	0.0000
Energy	0.7111	6.3637	4.6907	0.0388		0.4913	0.4913		0.4913	0.4913	0.0000	22,447.9504	22,447.9504	0.7711	0.2607	22,544.9020
Mobile	6.2742	54.1178	66.7960	0.3806	37.2703	0.1504	37.4207	9.9906	0.1400	10.1306	0.0000	35,353.1557	35,353.1557	1.2852	0.0000	35,385.2847
Stationary	8.3400e-003	0.0245	0.0612	2.7000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003	0.0000	46.0814	46.0814	1.2300e-003	0.0000	46.1121
Waste						0.0000	0.0000		0.0000	0.0000	519.2539	0.0000	519.2539	30.6870	0.0000	1,286.4296
Water						0.0000	0.0000		0.0000	0.0000	86.2822	1,686.7330	1,773.0152	8.9316	0.2237	2,062.9565
<b>Total</b>	<b>29.0463</b>	<b>60.6769</b>	<b>86.3585</b>	<b>0.4204</b>	<b>37.2703</b>	<b>0.7281</b>	<b>37.9984</b>	<b>9.9906</b>	<b>0.7176</b>	<b>10.7082</b>	<b>605.5361</b>	<b>59,558.2279</b>	<b>60,163.7640</b>	<b>41.6994</b>	<b>0.4843</b>	<b>61,350.5727</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	5.01	2.47	4.21	5.78	6.36	8.67	6.41	6.37	8.72	6.53	47.18	5.07	5.82	44.16	12.83	6.93

## 2.3 Vegetation

### Vegetation

	CO2e
Category	MT
New Trees	367.0000
Vegetation Land Change	0.0000
<b>Total</b>	<b>367.0000</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	Demolition	Demolition	7/1/2021	8/24/2022	5	300	
2	Site Preparation	Site Preparation	8/25/2022	9/1/2023	5	267	
3	Grading	Grading	9/4/2023	9/13/2024	5	270	
4	Building Construction	Building Construction	9/16/2024	9/14/2029	5	1305	
5	Paving	Paving	1/6/2025	10/5/2029	5	1240	
6	Architectural Coating	Architectural Coating	3/3/2025	12/28/2029	5	1260	

**Acres of Grading (Site Preparation Phase): 110**

**Acres of Grading (Grading Phase): 675**

**Acres of Paving: 9.9**

**Residential Indoor: 4,455,000; Residential Outdoor: 1,485,000; Non-Residential Indoor: 3,197,604; Non-Residential Outdoor: 1,065,868;**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	6	8.00	158	0.38
Demolition	Rubber Tired Dozers	4	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45



Off-Road	0.4178	4.1502	2.8466	5.1200e-003		0.2048	0.2048		0.1902	0.1902	0.0000	448.8104	448.8104	0.1263	0.0000	451.9684
<b>Total</b>	<b>0.4178</b>	<b>4.1502</b>	<b>2.8466</b>	<b>5.1200e-003</b>	<b>0.2187</b>	<b>0.2048</b>	<b>0.4235</b>	<b>0.0331</b>	<b>0.1902</b>	<b>0.2233</b>	<b>0.0000</b>	<b>448.8104</b>	<b>448.8104</b>	<b>0.1263</b>	<b>0.0000</b>	<b>451.9684</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	0.0153	0.5008	0.1078	1.6800e-003	0.0680	1.2100e-003	0.0692	0.0177	1.1600e-003	0.0189	0.0000	159.9056	159.9056	5.6300e-003	0.0000	160.0462
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	3.7900e-003	3.0800e-003	0.0340	8.0000e-005	7.9700e-003	7.0000e-005	8.0400e-003	2.1200e-003	6.0000e-005	2.1800e-003	0.0000	7.2244	7.2244	2.5000e-004	0.0000	7.2306
<b>Total</b>	<b>0.0191</b>	<b>0.5039</b>	<b>0.1418</b>	<b>1.7600e-003</b>	<b>0.0759</b>	<b>1.2800e-003</b>	<b>0.0772</b>	<b>0.0198</b>	<b>1.2200e-003</b>	<b>0.0210</b>	<b>0.0000</b>	<b>167.1300</b>	<b>167.1300</b>	<b>5.8800e-003</b>	<b>0.0000</b>	<b>167.2769</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	tons/yr										MT/yr					
Fugitive Dust					0.0682	0.0000	0.0682	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1220	2.4173	3.2570	5.1200e-003		0.0171	0.0171		0.0171	0.0171	0.0000	448.8098	448.8098	0.1263	0.0000	451.9679
<b>Total</b>	<b>0.1220</b>	<b>2.4173</b>	<b>3.2570</b>	<b>5.1200e-003</b>	<b>0.0682</b>	<b>0.0171</b>	<b>0.0853</b>	<b>0.0103</b>	<b>0.0171</b>	<b>0.0274</b>	<b>0.0000</b>	<b>448.8098</b>	<b>448.8098</b>	<b>0.1263</b>	<b>0.0000</b>	<b>451.9679</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	0.0153	0.5008	0.1078	1.6800e-003	0.0680	1.2100e-003	0.0692	0.0177	1.1600e-003	0.0189	0.0000	159.9056	159.9056	5.6300e-003	0.0000	160.0462
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	3.7900e-003	3.0800e-003	0.0340	8.0000e-005	7.9700e-003	7.0000e-005	8.0400e-003	2.1200e-003	6.0000e-005	2.1800e-003	0.0000	7.2244	7.2244	2.5000e-004	0.0000	7.2306
<b>Total</b>	<b>0.0191</b>	<b>0.5039</b>	<b>0.1418</b>	<b>1.7600e-003</b>	<b>0.0759</b>	<b>1.2800e-003</b>	<b>0.0772</b>	<b>0.0198</b>	<b>1.2200e-003</b>	<b>0.0210</b>	<b>0.0000</b>	<b>167.1300</b>	<b>167.1300</b>	<b>5.8800e-003</b>	<b>0.0000</b>	<b>167.2769</b>

### 3.2 Demolition - 2022

#### 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					0.2784	0.0000	0.2784	0.0422	0.0000	0.0422	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4434	4.3209	3.4598	6.5200e-003		0.2088	0.2088		0.1941	0.1941	0.0000	571.0358	571.0358	0.1604	0.0000	575.0458
<b>Total</b>	<b>0.4434</b>	<b>4.3209</b>	<b>3.4598</b>	<b>6.5200e-003</b>	<b>0.2784</b>	<b>0.2088</b>	<b>0.4872</b>	<b>0.0422</b>	<b>0.1941</b>	<b>0.2362</b>	<b>0.0000</b>	<b>571.0358</b>	<b>571.0358</b>	<b>0.1604</b>	<b>0.0000</b>	<b>575.0458</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	0.0183	0.5829	0.1321	2.1100e-003	0.0703	1.2700e-003	0.0716	0.0186	1.2200e-003	0.0198	0.0000	201.2551	201.2551	6.8900e-003	0.0000	201.4273
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	4.5200e-003	3.5600e-003	0.0399	1.0000e-004	0.0102	8.0000e-005	0.0102	2.7000e-003	8.0000e-005	2.7700e-003	0.0000	8.8767	8.8767	2.9000e-004	0.0000	8.8839
<b>Total</b>	<b>0.0228</b>	<b>0.5864</b>	<b>0.1720</b>	<b>2.2100e-003</b>	<b>0.0805</b>	<b>1.3500e-003</b>	<b>0.0818</b>	<b>0.0213</b>	<b>1.3000e-003</b>	<b>0.0225</b>	<b>0.0000</b>	<b>210.1318</b>	<b>210.1318</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>210.3112</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	tons/yr										MT/yr					
Fugitive Dust					0.0869	0.0000	0.0869	0.0132	0.0000	0.0132	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1553	3.0766	4.1452	6.5200e-003		0.0217	0.0217		0.0217	0.0217	0.0000	571.0351	571.0351	0.1604	0.0000	575.0451
<b>Total</b>	<b>0.1553</b>	<b>3.0766</b>	<b>4.1452</b>	<b>6.5200e-003</b>	<b>0.0869</b>	<b>0.0217</b>	<b>0.1086</b>	<b>0.0132</b>	<b>0.0217</b>	<b>0.0349</b>	<b>0.0000</b>	<b>571.0351</b>	<b>571.0351</b>	<b>0.1604</b>	<b>0.0000</b>	<b>575.0451</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	0.0183	0.5829	0.1321	2.1100e-003	0.0703	1.2700e-003	0.0716	0.0186	1.2200e-003	0.0198	0.0000	201.2551	201.2551	6.8900e-003	0.0000	201.4273
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	4.5200e-003	3.5600e-003	0.0399	1.0000e-004	0.0102	8.0000e-005	0.0102	2.7000e-003	8.0000e-005	2.7700e-003	0.0000	8.8767	8.8767	2.9000e-004	0.0000	8.8839
<b>Total</b>	<b>0.0228</b>	<b>0.5864</b>	<b>0.1720</b>	<b>2.2100e-003</b>	<b>0.0805</b>	<b>1.3500e-003</b>	<b>0.0818</b>	<b>0.0213</b>	<b>1.3000e-003</b>	<b>0.0225</b>	<b>0.0000</b>	<b>210.1318</b>	<b>210.1318</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>210.3112</b>

### 3.3 Site Preparation - 2022

#### 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					1.7204	0.0000	1.7204	0.9199	0.0000	0.9199	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2917	3.0437	1.8122	3.5000e-003		0.1484	0.1484		0.1365	0.1365	0.0000	307.6424	307.6424	0.0995	0.0000	310.1298
<b>Total</b>	<b>0.2917</b>	<b>3.0437</b>	<b>1.8122</b>	<b>3.5000e-003</b>	<b>1.7204</b>	<b>0.1484</b>	<b>1.8688</b>	<b>0.9199</b>	<b>0.1365</b>	<b>1.0564</b>	<b>0.0000</b>	<b>307.6424</b>	<b>307.6424</b>	<b>0.0995</b>	<b>0.0000</b>	<b>310.1298</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	2.9700e-003	2.3400e-003	0.0262	6.0000e-005	6.6700e-003	5.0000e-005	6.7200e-003	1.7700e-003	5.0000e-005	1.8200e-003	0.0000	5.8333	5.8333	1.9000e-004	0.0000	5.8380
<b>Total</b>	<b>2.9700e-003</b>	<b>2.3400e-003</b>	<b>0.0262</b>	<b>6.0000e-005</b>	<b>6.6700e-003</b>	<b>5.0000e-005</b>	<b>6.7200e-003</b>	<b>1.7700e-003</b>	<b>5.0000e-005</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>5.8333</b>	<b>5.8333</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>5.8380</b>

#### Mitigated Construction On-Site



Off-Road	0.4654	4.8167	3.1928	6.6600e-003		0.2216	0.2216		0.2038	0.2038	0.0000	585.3872	585.3872	0.1893	0.0000	590.1203
<b>Total</b>	<b>0.4654</b>	<b>4.8167</b>	<b>3.1928</b>	<b>6.6600e-003</b>	<b>3.2199</b>	<b>0.2216</b>	<b>3.4415</b>	<b>1.7442</b>	<b>0.2038</b>	<b>1.9480</b>	<b>0.0000</b>	<b>585.3872</b>	<b>585.3872</b>	<b>0.1893</b>	<b>0.0000</b>	<b>590.1203</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	5.3000e-003	4.0400e-003	0.0460	1.2000e-004	0.0127	1.0000e-004	0.0128	3.3700e-003	9.0000e-005	3.4600e-003	0.0000	10.6929	10.6929	3.3000e-004	0.0000	10.7010
<b>Total</b>	<b>5.3000e-003</b>	<b>4.0400e-003</b>	<b>0.0460</b>	<b>1.2000e-004</b>	<b>0.0127</b>	<b>1.0000e-004</b>	<b>0.0128</b>	<b>3.3700e-003</b>	<b>9.0000e-005</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>10.6929</b>	<b>10.6929</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>10.7010</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	tons/yr										MT/yr					
Fugitive Dust					1.0046	0.0000	1.0046	0.5442	0.0000	0.5442	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1630	3.3365	4.0180	6.6600e-003		0.0248	0.0248		0.0248	0.0248	0.0000	585.3865	585.3865	0.1893	0.0000	590.1196
<b>Total</b>	<b>0.1630</b>	<b>3.3365</b>	<b>4.0180</b>	<b>6.6600e-003</b>	<b>1.0046</b>	<b>0.0248</b>	<b>1.0295</b>	<b>0.5442</b>	<b>0.0248</b>	<b>0.5690</b>	<b>0.0000</b>	<b>585.3865</b>	<b>585.3865</b>	<b>0.1893</b>	<b>0.0000</b>	<b>590.1196</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	5.3000e-003	4.0400e-003	0.0460	1.2000e-004	0.0127	1.0000e-004	0.0128	3.3700e-003	9.0000e-005	3.4600e-003	0.0000	10.6929	10.6929	3.3000e-004	0.0000	10.7010
<b>Total</b>	<b>5.3000e-003</b>	<b>4.0400e-003</b>	<b>0.0460</b>	<b>1.2000e-004</b>	<b>0.0127</b>	<b>1.0000e-004</b>	<b>0.0128</b>	<b>3.3700e-003</b>	<b>9.0000e-005</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>10.6929</b>	<b>10.6929</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>10.7010</b>

### 3.4 Grading - 2023

#### 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					0.8698	0.0000	0.8698	0.3200	0.0000	0.3200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2824	2.9338	2.3844	5.2800e-003		0.1211	0.1211		0.1114	0.1114	0.0000	463.5493	463.5493	0.1499	0.0000	467.2973
<b>Total</b>	<b>0.2824</b>	<b>2.9338</b>	<b>2.3844</b>	<b>5.2800e-003</b>	<b>0.8698</b>	<b>0.1211</b>	<b>0.9909</b>	<b>0.3200</b>	<b>0.1114</b>	<b>0.4314</b>	<b>0.0000</b>	<b>463.5493</b>	<b>463.5493</b>	<b>0.1499</b>	<b>0.0000</b>	<b>467.2973</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	2.8600e-003	2.1800e-003	0.0248	6.0000e-005	6.8500e-003	5.0000e-005	6.9000e-003	1.8200e-003	5.0000e-005	1.8700e-003	0.0000	5.7707	5.7707	1.8000e-004	0.0000	5.7751
<b>Total</b>	<b>2.8600e-003</b>	<b>2.1800e-003</b>	<b>0.0248</b>	<b>6.0000e-005</b>	<b>6.8500e-003</b>	<b>5.0000e-005</b>	<b>6.9000e-003</b>	<b>1.8200e-003</b>	<b>5.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.7707</b>	<b>5.7707</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>5.7751</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	tons/yr										MT/yr					
Fugitive Dust					0.2714	0.0000	0.2714	0.0999	0.0000	0.0999	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1295	2.5481	3.1214	5.2800e-003		0.0166	0.0166		0.0166	0.0166	0.0000	463.5487	463.5487	0.1499	0.0000	467.2968
<b>Total</b>	<b>0.1295</b>	<b>2.5481</b>	<b>3.1214</b>	<b>5.2800e-003</b>	<b>0.2714</b>	<b>0.0166</b>	<b>0.2880</b>	<b>0.0999</b>	<b>0.0166</b>	<b>0.1164</b>	<b>0.0000</b>	<b>463.5487</b>	<b>463.5487</b>	<b>0.1499</b>	<b>0.0000</b>	<b>467.2968</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	2.8600e-003	2.1800e-003	0.0248	6.0000e-005	6.8500e-003	5.0000e-005	6.9000e-003	1.8200e-003	5.0000e-005	1.8700e-003	0.0000	5.7707	5.7707	1.8000e-004	0.0000	5.7751
<b>Total</b>	<b>2.8600e-003</b>	<b>2.1800e-003</b>	<b>0.0248</b>	<b>6.0000e-005</b>	<b>6.8500e-003</b>	<b>5.0000e-005</b>	<b>6.9000e-003</b>	<b>1.8200e-003</b>	<b>5.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.7707</b>	<b>5.7707</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>5.7751</b>

### 3.4 Grading - 2024

#### 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					1.4720	0.0000	1.4720	0.6510	0.0000	0.6510	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5954	5.9897	5.1287	0.0115		0.2471	0.2471		0.2273	0.2273	0.0000	1,008.6112	1,008.6112	0.3262	0.0000	1,016.7663
<b>Total</b>	<b>0.5954</b>	<b>5.9897</b>	<b>5.1287</b>	<b>0.0115</b>	<b>1.4720</b>	<b>0.2471</b>	<b>1.7191</b>	<b>0.6510</b>	<b>0.2273</b>	<b>0.8783</b>	<b>0.0000</b>	<b>1,008.6112</b>	<b>1,008.6112</b>	<b>0.3262</b>	<b>0.0000</b>	<b>1,016.7663</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	5.8600e-003	4.3200e-003	0.0490	1.3000e-004	0.0149	1.1000e-004	0.0150	3.9600e-003	1.1000e-004	4.0600e-003	0.0000	12.0946	12.0946	3.4000e-004	0.0000	12.1033
<b>Total</b>	<b>5.8600e-003</b>	<b>4.3200e-003</b>	<b>0.0490</b>	<b>1.3000e-004</b>	<b>0.0149</b>	<b>1.1000e-004</b>	<b>0.0150</b>	<b>3.9600e-003</b>	<b>1.1000e-004</b>	<b>4.0600e-003</b>	<b>0.0000</b>	<b>12.0946</b>	<b>12.0946</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>12.1033</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	tons/yr										MT/yr					
Fugitive Dust					0.4593	0.0000	0.4593	0.2031	0.0000	0.2031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2818	5.5460	6.7937	0.0115		0.0361	0.0361		0.0361	0.0361	0.0000	1,008.6100	1,008.6100	0.3262	0.0000	1,016.7651
<b>Total</b>	<b>0.2818</b>	<b>5.5460</b>	<b>6.7937</b>	<b>0.0115</b>	<b>0.4593</b>	<b>0.0361</b>	<b>0.4953</b>	<b>0.2031</b>	<b>0.0361</b>	<b>0.2392</b>	<b>0.0000</b>	<b>1,008.6100</b>	<b>1,008.6100</b>	<b>0.3262</b>	<b>0.0000</b>	<b>1,016.7651</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	5.8600e-003	4.3200e-003	0.0490	1.3000e-004	0.0149	1.1000e-004	0.0150	3.9600e-003	1.1000e-004	4.0600e-003	0.0000	12.0946	12.0946	3.4000e-004	0.0000	12.1033
<b>Total</b>	<b>5.8600e-003</b>	<b>4.3200e-003</b>	<b>0.0490</b>	<b>1.3000e-004</b>	<b>0.0149</b>	<b>1.1000e-004</b>	<b>0.0150</b>	<b>3.9600e-003</b>	<b>1.1000e-004</b>	<b>4.0600e-003</b>	<b>0.0000</b>	<b>12.0946</b>	<b>12.0946</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>12.1033</b>

**3.5 Building Construction - 2024**

**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	0.1133	1.0352	1.2448	2.0800e-003		0.0472	0.0472		0.0444	0.0444	0.0000	178.5238	178.5238	0.0422	0.0000	179.5792



<b>Total</b>	<b>0.1133</b>	<b>1.0352</b>	<b>1.2448</b>	<b>2.0800e-003</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0444</b>	<b>0.0444</b>	<b>0.0000</b>	<b>178.5238</b>	<b>178.5238</b>	<b>0.0422</b>	<b>0.0000</b>	<b>179.5792</b>
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**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	0.0514	1.9420	0.4397	7.0000e-003	0.1629	1.7900e-003	0.1647	0.0470	1.7100e-003	0.0487	0.0000	665.8377	665.8377	0.0225	0.0000	666.4010
Worker	0.2754	0.2029	2.3022	6.2900e-003	0.7004	5.3800e-003	0.7058	0.1861	4.9500e-003	0.1910	0.0000	568.5888	568.5888	0.0162	0.0000	568.9932
<b>Total</b>	<b>0.3268</b>	<b>2.1450</b>	<b>2.7419</b>	<b>0.0133</b>	<b>0.8633</b>	<b>7.1700e-003</b>	<b>0.8705</b>	<b>0.2331</b>	<b>6.6600e-003</b>	<b>0.2397</b>	<b>0.0000</b>	<b>1,234.4266</b>	<b>1,234.4266</b>	<b>0.0387</b>	<b>0.0000</b>	<b>1,235.3942</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	tons/yr										MT/yr					
Off-Road	0.0519	1.0954	1.3763	2.0800e-003		0.0104	0.0104		0.0104	0.0104	0.0000	178.5236	178.5236	0.0422	0.0000	179.5790
<b>Total</b>	<b>0.0519</b>	<b>1.0954</b>	<b>1.3763</b>	<b>2.0800e-003</b>		<b>0.0104</b>	<b>0.0104</b>		<b>0.0104</b>	<b>0.0104</b>	<b>0.0000</b>	<b>178.5236</b>	<b>178.5236</b>	<b>0.0422</b>	<b>0.0000</b>	<b>179.5790</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	0.0514	1.9420	0.4397	7.0000e-003	0.1629	1.7900e-003	0.1647	0.0470	1.7100e-003	0.0487	0.0000	665.8377	665.8377	0.0225	0.0000	666.4010
Worker	0.2754	0.2029	2.3022	6.2900e-003	0.7004	5.3800e-003	0.7058	0.1861	4.9500e-003	0.1910	0.0000	568.5888	568.5888	0.0162	0.0000	568.9932
<b>Total</b>	<b>0.3268</b>	<b>2.1450</b>	<b>2.7419</b>	<b>0.0133</b>	<b>0.8633</b>	<b>7.1700e-003</b>	<b>0.8705</b>	<b>0.2331</b>	<b>6.6600e-003</b>	<b>0.2397</b>	<b>0.0000</b>	<b>1,234.4266</b>	<b>1,234.4266</b>	<b>0.0387</b>	<b>0.0000</b>	<b>1,235.3942</b>

### 3.5 Building Construction - 2025

#### 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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</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	0.1707	6.5294	1.4419	0.0236	0.5520	6.0100e-003	0.5580	0.1593	5.7400e-003	0.1650	0.0000	2,244.8272	2,244.8272	0.0754	0.0000	2,246.7117
Worker	0.8844	0.6305	7.2456	0.0205	2.3741	0.0179	2.3920	0.6307	0.0165	0.6471	0.0000	1,852.7160	1,852.7160	0.0502	0.0000	1,853.9704
<b>Total</b>	<b>1.0551</b>	<b>7.1599</b>	<b>8.6875</b>	<b>0.0441</b>	<b>2.9262</b>	<b>0.0239</b>	<b>2.9500</b>	<b>0.7900</b>	<b>0.0222</b>	<b>0.8122</b>	<b>0.0000</b>	<b>4,097.5432</b>	<b>4,097.5432</b>	<b>0.1256</b>	<b>0.0000</b>	<b>4,100.6821</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	tons/yr										MT/yr					
Off-Road	0.1759	3.7130	4.6651	7.0400e-003		0.0354	0.0354		0.0354	0.0354	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.0354</b>	<b>0.0354</b>		<b>0.0354</b>	<b>0.0354</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</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	0.1707	6.5294	1.4419	0.0236	0.5520	6.0100e-003	0.5580	0.1593	5.7400e-003	0.1650	0.0000	2,244.8272	2,244.8272	0.0754	0.0000	2,246.7117
Worker	0.8844	0.6305	7.2456	0.0205	2.3741	0.0179	2.3920	0.6307	0.0165	0.6471	0.0000	1,852.7160	1,852.7160	0.0502	0.0000	1,853.9704
<b>Total</b>	<b>1.0551</b>	<b>7.1599</b>	<b>8.6875</b>	<b>0.0441</b>	<b>2.9262</b>	<b>0.0239</b>	<b>2.9500</b>	<b>0.7900</b>	<b>0.0222</b>	<b>0.8122</b>	<b>0.0000</b>	<b>4,097.5432</b>	<b>4,097.5432</b>	<b>0.1256</b>	<b>0.0000</b>	<b>4,100.6821</b>

### 3.5 Building Construction - 2026

#### 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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</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	0.1675	6.4774	1.4010	0.0235	0.5520	5.9400e-003	0.5580	0.1593	5.6700e-003	0.1650	0.0000	2,233.7316	2,233.7316	0.0743	0.0000	2,235.5891
Worker	0.8400	0.5802	6.7473	0.0198	2.3741	0.0173	2.3914	0.6307	0.0159	0.6466	0.0000	1,786.5391	1,786.5391	0.0460	0.0000	1,787.6883
<b>Total</b>	<b>1.0076</b>	<b>7.0575</b>	<b>8.1483</b>	<b>0.0433</b>	<b>2.9262</b>	<b>0.0232</b>	<b>2.9494</b>	<b>0.7900</b>	<b>0.0216</b>	<b>0.8116</b>	<b>0.0000</b>	<b>4,020.2707</b>	<b>4,020.2707</b>	<b>0.1203</b>	<b>0.0000</b>	<b>4,023.2774</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	tons/yr										MT/yr					
Off-Road	0.1759	3.7130	4.6651	7.0400e-003		0.0354	0.0354		0.0354	0.0354	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.0354</b>	<b>0.0354</b>		<b>0.0354</b>	<b>0.0354</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</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	0.1675	6.4774	1.4010	0.0235	0.5520	5.9400e-003	0.5580	0.1593	5.6700e-003	0.1650	0.0000	2,233.7316	2,233.7316	0.0743	0.0000	2,235.5891
Worker	0.8400	0.5802	6.7473	0.0198	2.3741	0.0173	2.3914	0.6307	0.0159	0.6466	0.0000	1,786.5391	1,786.5391	0.0460	0.0000	1,787.6883
<b>Total</b>	<b>1.0076</b>	<b>7.0575</b>	<b>8.1483</b>	<b>0.0433</b>	<b>2.9262</b>	<b>0.0232</b>	<b>2.9494</b>	<b>0.7900</b>	<b>0.0216</b>	<b>0.8116</b>	<b>0.0000</b>	<b>4,020.2707</b>	<b>4,020.2707</b>	<b>0.1203</b>	<b>0.0000</b>	<b>4,023.2774</b>

### **3.5 Building Construction - 2027**

#### 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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

<b>Total</b>	<b>0.3569</b>	<b>3.2546</b>	<b>4.1981</b>	<b>7.0400e-003</b>		<b>0.1377</b>	<b>0.1377</b>		<b>0.1295</b>	<b>0.1295</b>	<b>0.0000</b>	<b>605.3098</b>	<b>605.3098</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8670</b>
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**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	0.1650	6.4280	1.3695	0.0234	0.5520	5.8500e-003	0.5579	0.1593	5.6000e-003	0.1649	0.0000	2,224.1453	2,224.1453	0.0732	0.0000	2,225.9760
Worker	0.7965	0.5336	6.2895	0.0191	2.3741	0.0164	2.3905	0.6307	0.0151	0.6457	0.0000	1,727.1573	1,727.1573	0.0421	0.0000	1,728.2090
<b>Total</b>	<b>0.9615</b>	<b>6.9615</b>	<b>7.6590</b>	<b>0.0425</b>	<b>2.9262</b>	<b>0.0222</b>	<b>2.9484</b>	<b>0.7900</b>	<b>0.0207</b>	<b>0.8106</b>	<b>0.0000</b>	<b>3,951.3027</b>	<b>3,951.3027</b>	<b>0.1153</b>	<b>0.0000</b>	<b>3,954.1850</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	tons/yr										MT/yr					
Off-Road	0.1759	3.7130	4.6651	7.0400e-003		0.0354	0.0354		0.0354	0.0354	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
<b>Total</b>	<b>0.1759</b>	<b>3.7130</b>	<b>4.6651</b>	<b>7.0400e-003</b>		<b>0.0354</b>	<b>0.0354</b>		<b>0.0354</b>	<b>0.0354</b>	<b>0.0000</b>	<b>605.3091</b>	<b>605.3091</b>	<b>0.1423</b>	<b>0.0000</b>	<b>608.8663</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	0.1650	6.4280	1.3695	0.0234	0.5520	5.8500e-003	0.5579	0.1593	5.6000e-003	0.1649	0.0000	2,224.1453	2,224.1453	0.0732	0.0000	2,225.9760
Worker	0.7965	0.5336	6.2895	0.0191	2.3741	0.0164	2.3905	0.6307	0.0151	0.6457	0.0000	1,727.1573	1,727.1573	0.0421	0.0000	1,728.2090
<b>Total</b>	<b>0.9615</b>	<b>6.9615</b>	<b>7.6590</b>	<b>0.0425</b>	<b>2.9262</b>	<b>0.0222</b>	<b>2.9484</b>	<b>0.7900</b>	<b>0.0207</b>	<b>0.8106</b>	<b>0.0000</b>	<b>3,951.3027</b>	<b>3,951.3027</b>	<b>0.1153</b>	<b>0.0000</b>	<b>3,954.1850</b>

### 3.5 Building Construction - 2028

#### 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	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9906	602.9906	0.1417	0.0000	606.5342
<b>Total</b>	<b>0.3555</b>	<b>3.2421</b>	<b>4.1820</b>	<b>7.0100e-003</b>		<b>0.1372</b>	<b>0.1372</b>		<b>0.1290</b>	<b>0.1290</b>	<b>0.0000</b>	<b>602.9906</b>	<b>602.9906</b>	<b>0.1417</b>	<b>0.0000</b>	<b>606.5342</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	0.1622	6.3672	1.3370	0.0232	0.5499	5.7900e-003	0.5557	0.1587	5.5300e-003	0.1642	0.0000	2,207.5299	2,207.5299	0.0719	0.0000	2,209.3266
Worker	0.7476	0.4888	5.8590	0.0184	2.3650	0.0152	2.3802	0.6283	0.0140	0.6422	0.0000	1,667.8709	1,667.8709	0.0385	0.0000	1,668.8342
<b>Total</b>	<b>0.9098</b>	<b>6.8560</b>	<b>7.1960</b>	<b>0.0417</b>	<b>2.9150</b>	<b>0.0210</b>	<b>2.9360</b>	<b>0.7870</b>	<b>0.0195</b>	<b>0.8065</b>	<b>0.0000</b>	<b>3,875.4008</b>	<b>3,875.4008</b>	<b>0.1104</b>	<b>0.0000</b>	<b>3,878.1607</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	tons/yr										MT/yr					
Off-Road	0.1752	3.6988	4.6472	7.0100e-003		0.0352	0.0352		0.0352	0.0352	0.0000	602.9899	602.9899	0.1417	0.0000	606.5335
<b>Total</b>	<b>0.1752</b>	<b>3.6988</b>	<b>4.6472</b>	<b>7.0100e-003</b>		<b>0.0352</b>	<b>0.0352</b>		<b>0.0352</b>	<b>0.0352</b>	<b>0.0000</b>	<b>602.9899</b>	<b>602.9899</b>	<b>0.1417</b>	<b>0.0000</b>	<b>606.5335</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	0.1622	6.3672	1.3370	0.0232	0.5499	5.7900e-003	0.5557	0.1587	5.5300e-003	0.1642	0.0000	2,207.5299	2,207.5299	0.0719	0.0000	2,209.3266
Worker	0.7476	0.4888	5.8590	0.0184	2.3650	0.0152	2.3802	0.6283	0.0140	0.6422	0.0000	1,667.8709	1,667.8709	0.0385	0.0000	1,668.8342
<b>Total</b>	<b>0.9098</b>	<b>6.8560</b>	<b>7.1960</b>	<b>0.0417</b>	<b>2.9150</b>	<b>0.0210</b>	<b>2.9360</b>	<b>0.7870</b>	<b>0.0195</b>	<b>0.8065</b>	<b>0.0000</b>	<b>3,875.4008</b>	<b>3,875.4008</b>	<b>0.1104</b>	<b>0.0000</b>	<b>3,878.1607</b>



### 3.5 Building Construction - 2029

#### 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	0.2530	2.3069	2.9757	4.9900e-003		0.0976	0.0976		0.0918	0.0918	0.0000	429.0510	429.0510	0.1009	0.0000	431.5724
<b>Total</b>	<b>0.2530</b>	<b>2.3069</b>	<b>2.9757</b>	<b>4.9900e-003</b>		<b>0.0976</b>	<b>0.0976</b>		<b>0.0918</b>	<b>0.0918</b>	<b>0.0000</b>	<b>429.0510</b>	<b>429.0510</b>	<b>0.1009</b>	<b>0.0000</b>	<b>431.5724</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	0.1142	4.5080	0.9355	0.0165	0.3913	4.0800e-003	0.3954	0.1129	3.9000e-003	0.1168	0.0000	1,566.0742	1,566.0742	0.0503	0.0000	1,567.3328
Worker	0.4966	0.3185	3.8844	0.0128	1.6828	0.0101	1.6929	0.4470	9.2900e-003	0.4563	0.0000	1,153.2530	1,153.2530	0.0251	0.0000	1,153.8792
<b>Total</b>	<b>0.6108</b>	<b>4.8265</b>	<b>4.8199</b>	<b>0.0292</b>	<b>2.0741</b>	<b>0.0142</b>	<b>2.0883</b>	<b>0.5600</b>	<b>0.0132</b>	<b>0.5731</b>	<b>0.0000</b>	<b>2,719.3272</b>	<b>2,719.3272</b>	<b>0.0754</b>	<b>0.0000</b>	<b>2,721.2119</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	tons/yr										MT/yr					
Off-Road	0.1247	2.6318	3.3066	4.9900e-003		0.0251	0.0251		0.0251	0.0251	0.0000	429.0505	429.0505	0.1009	0.0000	431.5719
<b>Total</b>	<b>0.1247</b>	<b>2.6318</b>	<b>3.3066</b>	<b>4.9900e-003</b>		<b>0.0251</b>	<b>0.0251</b>		<b>0.0251</b>	<b>0.0251</b>	<b>0.0000</b>	<b>429.0505</b>	<b>429.0505</b>	<b>0.1009</b>	<b>0.0000</b>	<b>431.5719</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	0.1142	4.5080	0.9355	0.0165	0.3913	4.0800e-003	0.3954	0.1129	3.9000e-003	0.1168	0.0000	1,566.0742	1,566.0742	0.0503	0.0000	1,567.3328
Worker	0.4966	0.3185	3.8844	0.0128	1.6828	0.0101	1.6929	0.4470	9.2900e-003	0.4563	0.0000	1,153.2530	1,153.2530	0.0251	0.0000	1,153.8792
<b>Total</b>	<b>0.6108</b>	<b>4.8265</b>	<b>4.8199</b>	<b>0.0292</b>	<b>2.0741</b>	<b>0.0142</b>	<b>2.0883</b>	<b>0.5600</b>	<b>0.0132</b>	<b>0.5731</b>	<b>0.0000</b>	<b>2,719.3272</b>	<b>2,719.3272</b>	<b>0.0754</b>	<b>0.0000</b>	<b>2,721.2119</b>

### **3.6 Paving - 2025**

#### 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	0.2361	2.2141	3.7611	5.8800e-003		0.1080	0.1080		0.0993	0.0993	0.0000	516.4968	516.4968	0.1671	0.0000	520.6729

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>0.2361</b>	<b>2.2141</b>	<b>3.7611</b>	<b>5.8800e-003</b>		<b>0.1080</b>	<b>0.1080</b>		<b>0.0993</b>	<b>0.0993</b>	<b>0.0000</b>	<b>516.4968</b>	<b>516.4968</b>	<b>0.1671</b>	<b>0.0000</b>	<b>520.6729</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	5.8000e-003	4.1400e-003	0.0476	1.3000e-004	0.0156	1.2000e-004	0.0157	4.1400e-003	1.1000e-004	4.2500e-003	0.0000	12.1608	12.1608	3.3000e-004	0.0000	12.1691
<b>Total</b>	<b>5.8000e-003</b>	<b>4.1400e-003</b>	<b>0.0476</b>	<b>1.3000e-004</b>	<b>0.0156</b>	<b>1.2000e-004</b>	<b>0.0157</b>	<b>4.1400e-003</b>	<b>1.1000e-004</b>	<b>4.2500e-003</b>	<b>0.0000</b>	<b>12.1608</b>	<b>12.1608</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>12.1691</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	tons/yr										MT/yr					
Off-Road	0.1447	2.9142	4.4623	5.8800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	516.4962	516.4962	0.1671	0.0000	520.6723
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>0.1447</b>	<b>2.9142</b>	<b>4.4623</b>	<b>5.8800e-003</b>		<b>0.0236</b>	<b>0.0236</b>		<b>0.0236</b>	<b>0.0236</b>	<b>0.0000</b>	<b>516.4962</b>	<b>516.4962</b>	<b>0.1671</b>	<b>0.0000</b>	<b>520.6723</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	5.8000e-003	4.1400e-003	0.0476	1.3000e-004	0.0156	1.2000e-004	0.0157	4.1400e-003	1.1000e-004	4.2500e-003	0.0000	12.1608	12.1608	3.3000e-004	0.0000	12.1691
<b>Total</b>	<b>5.8000e-003</b>	<b>4.1400e-003</b>	<b>0.0476</b>	<b>1.3000e-004</b>	<b>0.0156</b>	<b>1.2000e-004</b>	<b>0.0157</b>	<b>4.1400e-003</b>	<b>1.1000e-004</b>	<b>4.2500e-003</b>	<b>0.0000</b>	<b>12.1608</b>	<b>12.1608</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>12.1691</b>

### 3.6 Paving - 2026

#### 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	0.2389	2.2398	3.8049	5.9500e-003		0.1092	0.1092		0.1005	0.1005	0.0000	522.5026	522.5026	0.1690	0.0000	526.7273
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>0.2389</b>	<b>2.2398</b>	<b>3.8049</b>	<b>5.9500e-003</b>		<b>0.1092</b>	<b>0.1092</b>		<b>0.1005</b>	<b>0.1005</b>	<b>0.0000</b>	<b>522.5026</b>	<b>522.5026</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7273</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	5.5800e-003	3.8500e-003	0.0448	1.3000e-004	0.0158	1.1000e-004	0.0159	4.1900e-003	1.1000e-004	4.2900e-003	0.0000	11.8628	11.8628	3.1000e-004	0.0000	11.8704
<b>Total</b>	<b>5.5800e-003</b>	<b>3.8500e-003</b>	<b>0.0448</b>	<b>1.3000e-004</b>	<b>0.0158</b>	<b>1.1000e-004</b>	<b>0.0159</b>	<b>4.1900e-003</b>	<b>1.1000e-004</b>	<b>4.2900e-003</b>	<b>0.0000</b>	<b>11.8628</b>	<b>11.8628</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>11.8704</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	tons/yr										MT/yr					
Off-Road	0.1464	2.9481	4.5142	5.9500e-003		0.0239	0.0239		0.0239	0.0239	0.0000	522.5019	522.5019	0.1690	0.0000	526.7266
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>0.1464</b>	<b>2.9481</b>	<b>4.5142</b>	<b>5.9500e-003</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0239</b>	<b>0.0239</b>	<b>0.0000</b>	<b>522.5019</b>	<b>522.5019</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7266</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	5.5800e-003	3.8500e-003	0.0448	1.3000e-004	0.0158	1.1000e-004	0.0159	4.1900e-003	1.1000e-004	4.2900e-003	0.0000	11.8628	11.8628	3.1000e-004	0.0000	11.8704
<b>Total</b>	<b>5.5800e-003</b>	<b>3.8500e-003</b>	<b>0.0448</b>	<b>1.3000e-004</b>	<b>0.0158</b>	<b>1.1000e-004</b>	<b>0.0159</b>	<b>4.1900e-003</b>	<b>1.1000e-004</b>	<b>4.2900e-003</b>	<b>0.0000</b>	<b>11.8628</b>	<b>11.8628</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>11.8704</b>

### 3.6 Paving - 2027

#### 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	0.2389	2.2398	3.8049	5.9500e-003		0.1092	0.1092		0.1005	0.1005	0.0000	522.5026	522.5026	0.1690	0.0000	526.7273
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>0.2389</b>	<b>2.2398</b>	<b>3.8049</b>	<b>5.9500e-003</b>		<b>0.1092</b>	<b>0.1092</b>		<b>0.1005</b>	<b>0.1005</b>	<b>0.0000</b>	<b>522.5026</b>	<b>522.5026</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7273</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	5.2900e-003	3.5400e-003	0.0418	1.3000e-004	0.0158	1.1000e-004	0.0159	4.1900e-003	1.0000e-004	4.2900e-003	0.0000	11.4685	11.4685	2.8000e-004	0.0000	11.4755
<b>Total</b>	<b>5.2900e-003</b>	<b>3.5400e-003</b>	<b>0.0418</b>	<b>1.3000e-004</b>	<b>0.0158</b>	<b>1.1000e-004</b>	<b>0.0159</b>	<b>4.1900e-003</b>	<b>1.0000e-004</b>	<b>4.2900e-003</b>	<b>0.0000</b>	<b>11.4685</b>	<b>11.4685</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>11.4755</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	tons/yr										MT/yr					
Off-Road	0.1464	2.9481	4.5142	5.9500e-003		0.0239	0.0239		0.0239	0.0239	0.0000	522.5019	522.5019	0.1690	0.0000	526.7266
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>0.1464</b>	<b>2.9481</b>	<b>4.5142</b>	<b>5.9500e-003</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0239</b>	<b>0.0239</b>	<b>0.0000</b>	<b>522.5019</b>	<b>522.5019</b>	<b>0.1690</b>	<b>0.0000</b>	<b>526.7266</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	5.2900e-003	3.5400e-003	0.0418	1.3000e-004	0.0158	1.1000e-004	0.0159	4.1900e-003	1.0000e-004	4.2900e-003	0.0000	11.4685	11.4685	2.8000e-004	0.0000	11.4755
<b>Total</b>	<b>5.2900e-003</b>	<b>3.5400e-003</b>	<b>0.0418</b>	<b>1.3000e-004</b>	<b>0.0158</b>	<b>1.1000e-004</b>	<b>0.0159</b>	<b>4.1900e-003</b>	<b>1.0000e-004</b>	<b>4.2900e-003</b>	<b>0.0000</b>	<b>11.4685</b>	<b>11.4685</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>11.4755</b>

### **3.6 Paving - 2028**

#### 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	0.2379	2.2312	3.7903	5.9300e-003		0.1088	0.1088		0.1001	0.1001	0.0000	520.5006	520.5006	0.1683	0.0000	524.7092

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>0.2379</b>	<b>2.2312</b>	<b>3.7903</b>	<b>5.9300e-003</b>		<b>0.1088</b>	<b>0.1088</b>		<b>0.1001</b>	<b>0.1001</b>	<b>0.0000</b>	<b>520.5006</b>	<b>520.5006</b>	<b>0.1683</b>	<b>0.0000</b>	<b>524.7092</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	4.9600e-003	3.2500e-003	0.0389	1.2000e-004	0.0157	1.0000e-004	0.0158	4.1700e-003	9.0000e-005	4.2600e-003	0.0000	11.0748	11.0748	2.6000e-004	0.0000	11.0812
<b>Total</b>	<b>4.9600e-003</b>	<b>3.2500e-003</b>	<b>0.0389</b>	<b>1.2000e-004</b>	<b>0.0157</b>	<b>1.0000e-004</b>	<b>0.0158</b>	<b>4.1700e-003</b>	<b>9.0000e-005</b>	<b>4.2600e-003</b>	<b>0.0000</b>	<b>11.0748</b>	<b>11.0748</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>11.0812</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	tons/yr										MT/yr					
Off-Road	0.1458	2.9368	4.4969	5.9300e-003		0.0238	0.0238		0.0238	0.0238	0.0000	520.5000	520.5000	0.1683	0.0000	524.7085
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>0.1458</b>	<b>2.9368</b>	<b>4.4969</b>	<b>5.9300e-003</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>	<b>0.0000</b>	<b>520.5000</b>	<b>520.5000</b>	<b>0.1683</b>	<b>0.0000</b>	<b>524.7085</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	4.9600e-003	3.2500e-003	0.0389	1.2000e-004	0.0157	1.0000e-004	0.0158	4.1700e-003	9.0000e-005	4.2600e-003	0.0000	11.0748	11.0748	2.6000e-004	0.0000	11.0812
<b>Total</b>	<b>4.9600e-003</b>	<b>3.2500e-003</b>	<b>0.0389</b>	<b>1.2000e-004</b>	<b>0.0157</b>	<b>1.0000e-004</b>	<b>0.0158</b>	<b>4.1700e-003</b>	<b>9.0000e-005</b>	<b>4.2600e-003</b>	<b>0.0000</b>	<b>11.0748</b>	<b>11.0748</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>11.0812</b>

### 3.6 Paving - 2029

#### 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	0.1830	1.7163	2.9156	4.5600e-003		0.0837	0.0837		0.0770	0.0770	0.0000	400.3851	400.3851	0.1295	0.0000	403.6224
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>0.1830</b>	<b>1.7163</b>	<b>2.9156</b>	<b>4.5600e-003</b>		<b>0.0837</b>	<b>0.0837</b>		<b>0.0770</b>	<b>0.0770</b>	<b>0.0000</b>	<b>400.3851</b>	<b>400.3851</b>	<b>0.1295</b>	<b>0.0000</b>	<b>403.6224</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	3.5600e-003	2.2900e-003	0.0279	9.0000e-005	0.0121	7.0000e-005	0.0122	3.2100e-003	7.0000e-005	3.2800e-003	0.0000	8.2786	8.2786	1.8000e-004	0.0000	8.2831
<b>Total</b>	<b>3.5600e-003</b>	<b>2.2900e-003</b>	<b>0.0279</b>	<b>9.0000e-005</b>	<b>0.0121</b>	<b>7.0000e-005</b>	<b>0.0122</b>	<b>3.2100e-003</b>	<b>7.0000e-005</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>8.2786</b>	<b>8.2786</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>8.2831</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	tons/yr										MT/yr					
Off-Road	0.1122	2.2590	3.4591	4.5600e-003		0.0183	0.0183		0.0183	0.0183	0.0000	400.3846	400.3846	0.1295	0.0000	403.6219
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>0.1122</b>	<b>2.2590</b>	<b>3.4591</b>	<b>4.5600e-003</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>	<b>0.0000</b>	<b>400.3846</b>	<b>400.3846</b>	<b>0.1295</b>	<b>0.0000</b>	<b>403.6219</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	3.5600e-003	2.2900e-003	0.0279	9.0000e-005	0.0121	7.0000e-005	0.0122	3.2100e-003	7.0000e-005	3.2800e-003	0.0000	8.2786	8.2786	1.8000e-004	0.0000	8.2831
<b>Total</b>	<b>3.5600e-003</b>	<b>2.2900e-003</b>	<b>0.0279</b>	<b>9.0000e-005</b>	<b>0.0121</b>	<b>7.0000e-005</b>	<b>0.0122</b>	<b>3.2100e-003</b>	<b>7.0000e-005</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>8.2786</b>	<b>8.2786</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>8.2831</b>

### 3.7 Architectural Coating - 2025

#### 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	10.2545					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.2497	0.3944	6.5000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	55.6609	55.6609	3.0400e-003	0.0000	55.7368
<b>Total</b>	<b>10.2918</b>	<b>0.2497</b>	<b>0.3944</b>	<b>6.5000e-004</b>		<b>0.0112</b>	<b>0.0112</b>		<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>55.6609</b>	<b>55.6609</b>	<b>3.0400e-003</b>	<b>0.0000</b>	<b>55.7368</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	0.1478	0.1054	1.2109	3.4300e-003	0.3968	2.9900e-003	0.3998	0.1054	2.7500e-003	0.1082	0.0000	309.6329	309.6329	8.3900e-003	0.0000	309.8425
<b>Total</b>	<b>0.1478</b>	<b>0.1054</b>	<b>1.2109</b>	<b>3.4300e-003</b>	<b>0.3968</b>	<b>2.9900e-003</b>	<b>0.3998</b>	<b>0.1054</b>	<b>2.7500e-003</b>	<b>0.1082</b>	<b>0.0000</b>	<b>309.6329</b>	<b>309.6329</b>	<b>8.3900e-003</b>	<b>0.0000</b>	<b>309.8425</b>

#### Mitigated Construction On-Site



Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
<b>Total</b>	<b>12.3218</b>	<b>0.2990</b>	<b>0.4722</b>	<b>7.8000e-004</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>66.6399</b>	<b>66.6399</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>66.7308</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	0.1681	0.1161	1.3501	3.9500e-003	0.4750	3.4600e-003	0.4785	0.1262	3.1900e-003	0.1294	0.0000	357.4660	357.4660	9.2000e-003	0.0000	357.6959
<b>Total</b>	<b>0.1681</b>	<b>0.1161</b>	<b>1.3501</b>	<b>3.9500e-003</b>	<b>0.4750</b>	<b>3.4600e-003</b>	<b>0.4785</b>	<b>0.1262</b>	<b>3.1900e-003</b>	<b>0.1294</b>	<b>0.0000</b>	<b>357.4660</b>	<b>357.4660</b>	<b>9.2000e-003</b>	<b>0.0000</b>	<b>357.6959</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	tons/yr										MT/yr					
Archit. Coating	12.2772					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
<b>Total</b>	<b>12.2927</b>	<b>0.3542</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>66.6398</b>	<b>66.6398</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>66.7307</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	0.1681	0.1161	1.3501	3.9500e-003	0.4750	3.4600e-003	0.4785	0.1262	3.1900e-003	0.1294	0.0000	357.4660	357.4660	9.2000e-003	0.0000	357.6959
<b>Total</b>	<b>0.1681</b>	<b>0.1161</b>	<b>1.3501</b>	<b>3.9500e-003</b>	<b>0.4750</b>	<b>3.4600e-003</b>	<b>0.4785</b>	<b>0.1262</b>	<b>3.1900e-003</b>	<b>0.1294</b>	<b>0.0000</b>	<b>357.4660</b>	<b>357.4660</b>	<b>9.2000e-003</b>	<b>0.0000</b>	<b>357.6959</b>

### 3.7 Architectural Coating - 2027

#### 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	12.2772					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
<b>Total</b>	<b>12.3218</b>	<b>0.2990</b>	<b>0.4722</b>	<b>7.8000e-004</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>66.6399</b>	<b>66.6399</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>66.7308</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	0.1594	0.1068	1.2585	3.8200e-003	0.4750	3.2800e-003	0.4783	0.1262	3.0100e-003	0.1292	0.0000	345.5844	345.5844	8.4200e-003	0.0000	345.7948
<b>Total</b>	<b>0.1594</b>	<b>0.1068</b>	<b>1.2585</b>	<b>3.8200e-003</b>	<b>0.4750</b>	<b>3.2800e-003</b>	<b>0.4783</b>	<b>0.1262</b>	<b>3.0100e-003</b>	<b>0.1292</b>	<b>0.0000</b>	<b>345.5844</b>	<b>345.5844</b>	<b>8.4200e-003</b>	<b>0.0000</b>	<b>345.7948</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	tons/yr										MT/yr					
Archit. Coating	12.2772					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
<b>Total</b>	<b>12.2927</b>	<b>0.3542</b>	<b>0.4783</b>	<b>7.8000e-004</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>66.6398</b>	<b>66.6398</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>66.7307</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	0.1594	0.1068	1.2585	3.8200e-003	0.4750	3.2800e-003	0.4783	0.1262	3.0100e-003	0.1292	0.0000	345.5844	345.5844	8.4200e-003	0.0000	345.7948
<b>Total</b>	<b>0.1594</b>	<b>0.1068</b>	<b>1.2585</b>	<b>3.8200e-003</b>	<b>0.4750</b>	<b>3.2800e-003</b>	<b>0.4783</b>	<b>0.1262</b>	<b>3.0100e-003</b>	<b>0.1292</b>	<b>0.0000</b>	<b>345.5844</b>	<b>345.5844</b>	<b>8.4200e-003</b>	<b>0.0000</b>	<b>345.7948</b>

### 3.7 Architectural Coating - 2028

#### 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	12.2302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3846	66.3846	3.6200e-003	0.0000	66.4751
<b>Total</b>	<b>12.2746</b>	<b>0.2978</b>	<b>0.4704</b>	<b>7.7000e-004</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>66.3846</b>	<b>66.3846</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>66.4751</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	0.1496	0.0978	1.1723	3.6900e-003	0.4732	3.0400e-003	0.4763	0.1257	2.8000e-003	0.1285	0.0000	333.7219	333.7219	7.7100e-003	0.0000	333.9146
<b>Total</b>	<b>0.1496</b>	<b>0.0978</b>	<b>1.1723</b>	<b>3.6900e-003</b>	<b>0.4732</b>	<b>3.0400e-003</b>	<b>0.4763</b>	<b>0.1257</b>	<b>2.8000e-003</b>	<b>0.1285</b>	<b>0.0000</b>	<b>333.7219</b>	<b>333.7219</b>	<b>7.7100e-003</b>	<b>0.0000</b>	<b>333.9146</b>

#### Mitigated Construction On-Site





Off-Road	0.0444	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3846	66.3846	3.6200e-003	0.0000	66.4751
<b>Total</b>	<b>12.2746</b>	<b>0.2978</b>	<b>0.4704</b>	<b>7.7000e-004</b>		<b>0.0134</b>	<b>0.0134</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>66.3846</b>	<b>66.3846</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>66.4751</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	0.1397	0.0896	1.0923	3.5900e-003	0.4732	2.8400e-003	0.4761	0.1257	2.6100e-003	0.1283	0.0000	324.3011	324.3011	7.0400e-003	0.0000	324.4772
<b>Total</b>	<b>0.1397</b>	<b>0.0896</b>	<b>1.0923</b>	<b>3.5900e-003</b>	<b>0.4732</b>	<b>2.8400e-003</b>	<b>0.4761</b>	<b>0.1257</b>	<b>2.6100e-003</b>	<b>0.1283</b>	<b>0.0000</b>	<b>324.3011</b>	<b>324.3011</b>	<b>7.0400e-003</b>	<b>0.0000</b>	<b>324.4772</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	tons/yr										MT/yr					
Archit. Coating	12.2302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3528	0.4764	7.7000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	66.3845	66.3845	3.6200e-003	0.0000	66.4751
<b>Total</b>	<b>12.2456</b>	<b>0.3528</b>	<b>0.4764</b>	<b>7.7000e-004</b>		<b>3.7100e-003</b>	<b>3.7100e-003</b>		<b>3.7100e-003</b>	<b>3.7100e-003</b>	<b>0.0000</b>	<b>66.3845</b>	<b>66.3845</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>66.4751</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	0.1397	0.0896	1.0923	3.5900e-003	0.4732	2.8400e-003	0.4761	0.1257	2.6100e-003	0.1283	0.0000	324.3011	324.3011	7.0400e-003	0.0000	324.4772
<b>Total</b>	<b>0.1397</b>	<b>0.0896</b>	<b>1.0923</b>	<b>3.5900e-003</b>	<b>0.4732</b>	<b>2.8400e-003</b>	<b>0.4761</b>	<b>0.1257</b>	<b>2.6100e-003</b>	<b>0.1283</b>	<b>0.0000</b>	<b>324.3011</b>	<b>324.3011</b>	<b>7.0400e-003</b>	<b>0.0000</b>	<b>324.4772</b>

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.2742	54.1178	66.7960	0.3806	37.2703	0.1504	37.4207	9.9906	0.1400	10.1306	0.0000	35,353.157	35,353.1557	1.2852	0.0000	35,385.2847
Unmitigated	6.4536	54.9036	70.2701	0.4016	39.8038	0.1591	39.9629	10.6697	0.1480	10.8178	0.0000	37,299.7586	37,299.7586	1.3324	0.0000	37,333.0692

#### 4.2 Trip Summary Information

Average Daily Trip Rate	Unmitigated	Mitigated
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Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	9,882.00	9,666.00	8194.50	27,293,756	25,556,509
Congregate Care (Assisted Living)	1,708.00	880.00	976.00	4,217,984	3,949,509
General Office Building	5,844.00	1,476.00	630.00	10,694,485	10,013,781
High Turnover (Sit Down Restaurant)	10,208.38	14,411.67	11997.44	12,837,666	12,020,549
Hospital	6,696.00	2,442.00	2157.00	13,699,935	12,827,934
Hospital	8,124.48	2,962.96	2617.16	16,622,587	15,564,560
Hotel	1,504.80	1,474.20	1071.00	2,732,969	2,559,015
Regional Shopping Center	5,700.25	7,545.47	3811.24	9,983,308	9,347,870
Single Family Housing	2,360.00	2,477.50	2155.00	6,667,182	6,242,816
Unenclosed Parking with Elevator	0.00	0.00	0.00		
<b>Total</b>	<b>52,027.91</b>	<b>43,335.80</b>	<b>33,609.34</b>	<b>104,749,872</b>	<b>98,082,542</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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down Restaurant)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520
Apartments Low Rise	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520
Congregate Care (Assisted Living)	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520
General Office Building	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520
High Turnover (Sit Down Restaurant)	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520
Hospital	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520

Hotel	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520
Regional Shopping Center	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520
Single Family Housing	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520
Unenclosed Parking with Elevator	0.650778	0.030759	0.146759	0.081495	0.008338	0.003833	0.021431	0.044180	0.002549	0.001859	0.006095	0.001404	0.000520

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	15,410.4853	15,410.4853	0.6362	0.1316	15,465.6167
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,457.4306	15,457.4306	0.6382	0.1320	15,512.7300
NaturalGas Mitigated	0.7111	6.3637	4.6907	0.0388		0.4913	0.4913		0.4913	0.4913	0.0000	7,037.4652	7,037.4652	0.1349	0.1290	7,079.2853
NaturalGas Unmitigated	0.7111	6.3637	4.6907	0.0388		0.4913	0.4913		0.4913	0.4913	0.0000	7,037.4652	7,037.4652	0.1349	0.1290	7,079.2853

### 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
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Land Use	kBTU/yr	tons/yr									MT/yr						
Apartments Low Rise	2.20587e+007	0.1189	1.0164	0.4325	6.4900e-003		0.0822	0.0822		0.0822	0.0822	0.0000	1,177.1357	1,177.1357	0.0226	0.0216	1,184.1308
Congregate Care (Assisted Living)	5.35847e+006	0.0289	0.2469	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200	0.0000	285.9483	285.9483	5.4800e-003	5.2400e-003	287.6475
General Office Building	6.246e+006	0.0337	0.3062	0.2572	1.8400e-003		0.0233	0.0233		0.0233	0.0233	0.0000	333.3104	333.3104	6.3900e-003	6.1100e-003	335.2910
High Turnover (Sit Down Restaurant)	2.09992e+007	0.1132	1.0294	0.8647	6.1800e-003		0.0782	0.0782		0.0782	0.0782	0.0000	1,120.5952	1,120.5952	0.0215	0.0205	1,127.2543
Hospital	1.68723e+007	0.0910	0.8271	0.6947	4.9600e-003		0.0629	0.0629		0.0629	0.0629	0.0000	900.3700	900.3700	0.0173	0.0165	905.7204
Hospital	4.5332e+007	0.2444	2.2222	1.8666	0.0133		0.1689	0.1689		0.1689	0.1689	0.0000	2,419.0882	2,419.0882	0.0464	0.0444	2,433.4636
Hotel	7.89422e+006	0.0426	0.3870	0.3251	2.3200e-003		0.0294	0.0294		0.0294	0.0294	0.0000	421.2654	421.2654	8.0700e-003	7.7200e-003	423.7688
Regional Shopping Center	247640	1.3400e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.2150	13.2150	2.5000e-004	2.4000e-004	13.2935
Single Family Housing	6.86865e+006	0.0370	0.3165	0.1347	2.0200e-003		0.0256	0.0256		0.0256	0.0256	0.0000	366.5372	366.5372	7.0300e-003	6.7200e-003	368.7153
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.7111</b>	<b>6.3637</b>	<b>4.6907</b>	<b>0.0388</b>		<b>0.4913</b>	<b>0.4913</b>		<b>0.4913</b>	<b>0.4913</b>	<b>0.0000</b>	<b>7,037.4652</b>	<b>7,037.4652</b>	<b>0.1349</b>	<b>0.1290</b>	<b>7,079.2853</b>

**Mitigated**

Land Use	Natural Gas 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						
Apartments Low Rise	2.20587e+007	0.1189	1.0164	0.4325	6.4900e-003		0.0822	0.0822		0.0822	0.0822	0.0000	1,177.1357	1,177.1357	0.0226	0.0216	1,184.1308
Congregate Care (Assisted Living)	5.35847e+006	0.0289	0.2469	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200	0.0000	285.9483	285.9483	5.4800e-003	5.2400e-003	287.6475
General Office Building	6.246e+006	0.0337	0.3062	0.2572	1.8400e-003		0.0233	0.0233		0.0233	0.0233	0.0000	333.3104	333.3104	6.3900e-003	6.1100e-003	335.2910
High Turnover (Sit Down Restaurant)	2.09992e+007	0.1132	1.0294	0.8647	6.1800e-003		0.0782	0.0782		0.0782	0.0782	0.0000	1,120.5952	1,120.5952	0.0215	0.0205	1,127.2543

Hospital	1.68723e+007	0.0910	0.8271	0.6947	4.9600e-003		0.0629	0.0629		0.0629	0.0629	0.0000	900.3700	900.3700	0.0173	0.0165	905.7204
Hospital	4.5332e+007	0.2444	2.2222	1.8666	0.0133		0.1689	0.1689		0.1689	0.1689	0.0000	2,419.0882	2,419.0882	0.0464	0.0444	2,433.4636
Hotel	7.89422e+006	0.0426	0.3870	0.3251	2.3200e-003		0.0294	0.0294		0.0294	0.0294	0.0000	421.2654	421.2654	8.0700e-003	7.7200e-003	423.7688
Regional Shopping Center	247640	1.3400e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.2150	13.2150	2.5000e-004	2.4000e-004	13.2935
Single Family Housing	6.86865e+006	0.0370	0.3165	0.1347	2.0200e-003		0.0256	0.0256		0.0256	0.0256	0.0000	366.5372	366.5372	7.0300e-003	6.7200e-003	368.7153
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.7111</b>	<b>6.3637</b>	<b>4.6907</b>	<b>0.0388</b>		<b>0.4913</b>	<b>0.4913</b>		<b>0.4913</b>	<b>0.4913</b>	<b>0.0000</b>	<b>7,037.4652</b>	<b>7,037.4652</b>	<b>0.1349</b>	<b>0.1290</b>	<b>7,079.2853</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.72453e+006	1,823.9568	0.0753	0.0156	1,830.4821
Congregate Care (Assisted Living)	1.61927e+006	515.9335	0.0213	4.4100e-003	517.7792
General Office Building	7.794e+006	2,483.3354	0.1025	0.0212	2,492.2196
High Turnover (Sit Down Restaurant)	4.01674e+006	1,279.8194	0.0528	0.0109	1,284.3980
Hospital	1.5974e+007	5,089.6586	0.2101	0.0435	5,107.8670
Hospital	5.94543e+006	1,894.3401	0.0782	0.0162	1,901.1172
Hotel	2.49534e+006	795.0675	0.0328	6.7900e-003	797.9119
Regional Shopping Center	2.0385e+006	649.5098	0.0268	5.5500e-003	651.8334
Single Family Housing	2.05207e+006	653.8343	0.0270	5.5800e-003	656.1734

Unenclosed Parking with Elevator	853600	271.9753	0.0112	2.3200e-003	272.9483
<b>Total</b>		<b>15,457.4306</b>	<b>0.6381</b>	<b>0.1320</b>	<b>15,512.7300</b>

### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.57719e+006	1,777.0114	0.0734	0.0152	1,783.3687
Congregate Care (Assisted Living)	1.61927e+006	515.9335	0.0213	4.4100e-003	517.7792
General Office Building	7.794e+006	2,483.3354	0.1025	0.0212	2,492.2196
High Turnover (Sit Down Restaurant)	4.01674e+006	1,279.8194	0.0528	0.0109	1,284.3980
Hospital	1.5974e+007	5,089.6586	0.2101	0.0435	5,107.8670
Hospital	5.94543e+006	1,894.3401	0.0782	0.0162	1,901.1172
Hotel	2.49534e+006	795.0675	0.0328	6.7900e-003	797.9119
Regional Shopping Center	2.0385e+006	649.5098	0.0268	5.5500e-003	651.8334
Single Family Housing	2.05207e+006	653.8343	0.0270	5.5800e-003	656.1734
Unenclosed Parking with Elevator	853600	271.9753	0.0112	2.3200e-003	272.9483
<b>Total</b>		<b>15,410.4852</b>	<b>0.6362</b>	<b>0.1316</b>	<b>15,465.6167</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior



Use Low VOC Paint - Residential Exterior  
 Use Low VOC Paint - Non-Residential Interior  
 Use Low VOC Paint - Non-Residential Exterior  
 No Hearths Installed  
 Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	22.0526	0.1709	14.8104	7.9000e-004		0.0824	0.0824		0.0824	0.0824	0.0000	24.3074	24.3074	0.0232	0.0000	24.8878
Unmitigated	23.4051	0.9190	15.1288	5.5600e-003		0.1429	0.1429		0.1429	0.1429	0.0000	890.7222	890.7222	0.0398	0.0159	896.4513

## 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	5.9269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	16.9460					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0876	0.7481	0.3184	4.7800e-003		0.0605	0.0605		0.0605	0.0605	0.0000	866.4148	866.4148	0.0166	0.0159	871.5635
Landscaping	0.4445	0.1709	14.8104	7.9000e-004		0.0824	0.0824		0.0824	0.0824	0.0000	24.3074	24.3074	0.0232	0.0000	24.8878

<b>Total</b>	<b>23.4051</b>	<b>0.9190</b>	<b>15.1288</b>	<b>5.5700e-003</b>		<b>0.1429</b>	<b>0.1429</b>		<b>0.1429</b>	<b>0.1429</b>	<b>0.0000</b>	<b>890.7222</b>	<b>890.7222</b>	<b>0.0398</b>	<b>0.0159</b>	<b>896.4513</b>
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**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	5.9269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.6812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4445	0.1709	14.8104	7.9000e-004		0.0824	0.0824		0.0824	0.0824	0.0000	24.3074	24.3074	0.0232	0.0000	24.8878
<b>Total</b>	<b>22.0526</b>	<b>0.1709</b>	<b>14.8104</b>	<b>7.9000e-004</b>		<b>0.0824</b>	<b>0.0824</b>		<b>0.0824</b>	<b>0.0824</b>	<b>0.0000</b>	<b>24.3074</b>	<b>24.3074</b>	<b>0.0232</b>	<b>0.0000</b>	<b>24.8878</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
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
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Category	MT/yr			
Mitigated	1,773.0152	8.9316	0.2237	2,062.9565
Unmitigated	2,112.9423	11.1603	0.2787	2,474.9993

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	87.9579 / 55.4517	589.1149	2.8893	0.0725	682.9426
Congregate Care (Assisted Living)	26.0616 / 16.4301	174.5526	0.8561	0.0215	202.3534
General Office Building	106.64 / 65.3602	707.6252	3.5027	0.0878	821.3583
High Turnover (Sit Down Restaurant)	27.6216 / 1.76308	129.5997	0.9050	0.0223	158.8663
Hospital	59.6363 / 11.3593	306.5475	1.9551	0.0483	369.8312
Hotel	4.56602 / 0.507335	22.1879	0.1496	3.6900e-003	27.0286
Regional Shopping Center	11.185 / 6.85529	74.2192	0.3674	9.2100e-003	86.1481
Single Family Housing	16.2885 / 10.2688	109.0954	0.5351	0.0134	126.4709
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,112.9423</b>	<b>11.1603</b>	<b>0.2787</b>	<b>2,474.9993</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	70.3663 / 52.0692	498.5766	2.3126	0.0582	573.7364
Congregate Care (Assisted Living)	20.8493 / 15.4279	147.7264	0.6852	0.0173	169.9960
General Office Building	85.3122 / 61.3732	598.2602	2.8035	0.0705	689.3617
High Turnover (Sit Down Restaurant)	22.0973 / 1.65553	104.5472	0.7241	0.0178	127.9637
Hospital	47.709 / 10.6664	250.8273	1.5643	0.0387	301.4743
Hotel	3.65281 / 0.476388	17.9999	0.1197	2.9500e-003	21.8734
Regional Shopping Center	8.94796 / 6.43712	62.7485	0.2940	7.4000e-003	72.3036
Single Family Housing	13.0308 / 9.64244	92.3290	0.4283	0.0108	106.2475
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1,773.0152</b>	<b>8.9316</b>	<b>0.2237</b>	<b>2,062.9565</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

#### Category/Year

	Total CO2	CH4	N2O	CO2e
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	MT/yr			
Mitigated	519.2539	30.6870	0.0000	1,286.4296
Unmitigated	1,038.5079	61.3741	0.0000	2,572.8593

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	621	126.0574	7.4498	0.0000	312.3018
Congregate Care (Assisted Living)	365	74.0917	4.3787	0.0000	183.5591
General Office Building	558	113.2690	6.6940	0.0000	280.6191
High Turnover (Sit Down Restaurant)	1082.9	219.8189	12.9909	0.0000	544.5921
Hospital	1938.88	393.5751	23.2596	0.0000	975.0657
Hotel	98.55	20.0048	1.1823	0.0000	49.5609
Regional Shopping Center	158.55	32.1842	1.9020	0.0000	79.7350
Single Family Housing	293.15	59.5068	3.5168	0.0000	147.4256
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1,038.5079</b>	<b>61.3741</b>	<b>0.0000</b>	<b>2,572.8593</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	310.5	63.0287	3.7249	0.0000	156.1509
Congregate Care (Assisted Living)	182.5	37.0459	2.1894	0.0000	91.7795
General Office Building	279	56.6345	3.3470	0.0000	140.3095
High Turnover (Sit Down Restaurant)	541.45	109.9095	6.4955	0.0000	272.2960
Hospital	969.44	196.7876	11.6298	0.0000	487.5329
Hotel	49.275	10.0024	0.5911	0.0000	24.7805
Regional Shopping Center	79.275	16.0921	0.9510	0.0000	39.8675
Single Family Housing	146.575	29.7534	1.7584	0.0000	73.7128
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>519.2539</b>	<b>30.6870</b>	<b>0.0000</b>	<b>1,286.4296</b>

## 9.0 Operational Offroad

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

### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	50	50	0.73	Diesel

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	0.7	270	45	CNG

### User Defined Equipment

Equipment Type	Number
----------------	--------

## 10.1 Stationary Sources

### Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (5 - 75 MMBTU)	2.1800e-003	4.4600e-003	0.0389	2.4000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	43.2254	43.2254	8.3000e-004	0.0000	43.2461
Emergency Generator - Diesel (50 - 75 HP)	6.1500e-003	0.0201	0.0223	3.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	2.8560	2.8560	4.0000e-004	0.0000	2.8660
<b>Total</b>	<b>8.3300e-003</b>	<b>0.0245</b>	<b>0.0612</b>	<b>2.7000e-004</b>		<b>3.9300e-003</b>	<b>3.9300e-003</b>		<b>3.9300e-003</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>46.0814</b>	<b>46.0814</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>46.1121</b>

## 11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	367.0000	0.0000	0.0000	367.0000

## 11.1 Vegetation Land Change

### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Others	0 / 68.5	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>

## 11.2 Net New Trees

### Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Mixed Hardwood	500	367.0000	0.0000	0.0000	367.0000
<b>Total</b>		<b>367.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>367.0000</b>



**APPENDIX F.3**

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**Construction Debris and Water (Annual)**

Construction GHG Water and Solid Waste - Antelope Valley APCD Air District, Annual

**Construction GHG Water and Solid Waste**  
**Antelope Valley APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Construction water and solid waste activities run

Demolition -

Water And Wastewater - Total building area at an application rate of 3,020 gallons per acre per day (Air & Waste Management Association Air Pollution Engineering Manual (1992 Edition)) and average of 20 construction days per month

Solid Waste - Construction debris generation/diversion rates provided in Section 5.17.3: Solid Waste of the EIR

Area Mitigation -

Water Mitigation -

Construction Phase -

Off-road Equipment - Operational run only

Waste Mitigation - Construction debris generation/diversion rates provided in Section 5.17.3: Solid Waste of the EIR

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.00	89,719.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblWater	OutdoorWaterUseRate	0.00	76,901,280.00

## 2.0 Emissions Summary

### 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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	18,212.1462	0.0000	18,212.1462	1,076.3070	0.0000	45,119.8213
Water						0.0000	0.0000		0.0000	0.0000	0.0000	272.2216	272.2216	0.0112	2.3300e-003	273.1955
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</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>0.0000</b>	<b>18,212.1462</b>	<b>272.2216</b>	<b>18,484.3678</b>	<b>1,076.3183</b>	<b>2.3300e-003</b>	<b>45,393.0169</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	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	6,374.2512	0.0000	6,374.2512	376.7075	0.0000	15,791.9375
Water						0.0000	0.0000		0.0000	0.0000	0.0000	255.6161	255.6161	0.0106	2.1800e-003	256.5306
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</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>0.0000</b>	<b>6,374.2512</b>	<b>255.6161</b>	<b>6,629.8673</b>	<b>376.7180</b>	<b>2.1800e-003</b>	<b>16,048.4681</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>65.00</b>	<b>6.10</b>	<b>64.13</b>	<b>65.00</b>	<b>6.44</b>	<b>64.65</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	255.6161	0.0106	2.1800e-003	256.5306
Unmitigated	272.2216	0.0112	2.3300e-003	273.1955

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Commercial	0 / 76.9013	272.2216	0.0112	2.3300e-003	273.1955
<b>Total</b>		<b>272.2216</b>	<b>0.0112</b>	<b>2.3300e-003</b>	<b>273.1955</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	6,374.2512	376.7075	0.0000	15,791.9375
Unmitigated	18,212.1462	1,076.3070	0.0000	45,119.8213

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Commercial	89719	18,212.146 2	1,076.307 0	0.0000	45,119.82 13
<b>Total</b>		<b>18,212.146 2</b>	<b>1,076.307 0</b>	<b>0.0000</b>	<b>45,119.82 13</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Commercial	31401.6	6,374.2512	376.7075	0.0000	15,791.93 75
<b>Total</b>		<b>6,374.2512</b>	<b>376.7075</b>	<b>0.0000</b>	<b>15,791.93 75</b>