

**APPENDIX B**  
**Air Quality and Greenhouse Gas**  
**Calculations**

# **Construction Emissions Modeling Unmitigated**

**AMC Construction - Unmitigated**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	262.55	1000sqft	5.21	262,550.00	0
Other Non-Asphalt Surfaces	188.00	1000sqft	4.32	188,000.00	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>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Construction only.

Land Use - Total site acreage = 9.53 acres.

Construction Phase - Project schedule from Metro.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Round trips accounted for.

Demolition -

Grading - During site preparation, approximately 280,460 square feet of asphalt surface and 26,000 square feet of concrete surface will be removed.

Vehicle Trips - Construction Only.

Area Coating - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Comply with SCAQMD Rule 403 for Fugitive Dust Control.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	225275	0
tblAreaCoating	Area_Nonresidential_Interior	675825	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	230.00	675.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/4/2023	7/7/2023
tblConstructionPhase	PhaseStartDate	7/8/2023	6/12/2023

tblConstructionPhase	PhaseStartDate	11/7/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	8/29/2020	8/31/2020
tblConstructionPhase	PhaseStartDate	6/10/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	8/1/2020	8/3/2020
tblEnergyUse	LightingElect	4.25	0.00
tblEnergyUse	NT24E	4.79	0.00
tblEnergyUse	NT24NG	0.19	0.00
tblEnergyUse	T24E	6.86	0.00
tblEnergyUse	T24NG	10.10	0.00
tblGrading	MaterialExported	0.00	15,500.00
tblGrading	MaterialExported	0.00	6,810.25
tblLandUse	LotAcreage	6.03	5.21
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024
tblSolidWaste	SolidWasteGenerationRate	244.17	0.00
tblTripsAndVMT	HaulingTripNumber	673.00	674.00
tblTripsAndVMT	VendorTripNumber	74.00	60.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblTripsAndVMT	WorkerTripNumber	163.00	134.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	33.00	28.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblWater	IndoorWaterUseRate	46,663,995.54	0.00

tblWater	OutdoorWaterUseRate	28,600,513.39	0.00
----------	---------------------	---------------	------

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.1981	53.5936	47.8678	0.0821	18.8852	2.4960	20.9447	10.1495	2.2963	12.0443	0.0000	7,792.4068	7,792.4068	1.6046	0.0000	7,826.1040
2021	2.7159	20.9745	28.4630	0.0581	1.8723	1.0224	2.8948	0.5038	0.9601	1.4639	0.0000	5,064.3475	5,064.3475	0.6871	0.0000	5,078.7772
2022	2.4906	18.8514	27.7455	0.0581	1.8723	0.8726	2.7450	0.5038	0.8198	1.3236	0.0000	5,042.4947	5,042.4947	0.6805	0.0000	5,056.7843
2023	523.3989	17.0192	27.0837	0.0581	1.8724	0.7629	2.6352	0.5038	0.7166	1.2204	0.0000	5,017.5659	5,017.5659	0.7353	0.0000	5,033.0071
<b>Total</b>	<b>533.8034</b>	<b>110.4388</b>	<b>131.1601</b>	<b>0.2564</b>	<b>24.5022</b>	<b>5.1539</b>	<b>29.2197</b>	<b>11.6609</b>	<b>4.7927</b>	<b>16.0522</b>	<b>0.0000</b>	<b>22,916.8149</b>	<b>22,916.8149</b>	<b>3.7075</b>	<b>0.0000</b>	<b>22,994.6725</b>



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/6/2020	7/31/2020	5	20	
2	Site Preparation	Site Preparation	8/3/2020	8/28/2020	5	20	
3	Grading	Grading	8/31/2020	11/6/2020	5	50	
4	Building Construction	Building Construction	11/9/2020	6/9/2023	5	675	
5	Paving	Paving	6/12/2023	7/7/2023	5	20	
6	Architectural Coating	Architectural Coating	6/12/2023	7/7/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 675,825; Non-Residential Outdoor: 225,275 (Architectural Coating – sqft)

#### OffRoad Equipment



Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	174.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	674.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	24.00	0.00	1,938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	134.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8841	0.0000	1.8841	0.2853	0.0000	0.2853			0.0000			0.0000
Off-Road	3.0964	31.0154	29.6099	0.0400		1.4899	1.4899		1.3865	1.3865		3,857.1420	3,857.1420	1.0933		3,880.1021
<b>Total</b>	<b>3.0964</b>	<b>31.0154</b>	<b>29.6099</b>	<b>0.0400</b>	<b>1.8841</b>	<b>1.4899</b>	<b>3.3739</b>	<b>0.2853</b>	<b>1.3865</b>	<b>1.6718</b>		<b>3,857.1420</b>	<b>3,857.1420</b>	<b>1.0933</b>		<b>3,880.1021</b>

### 3.2 Demolition - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1435	1.7988	1.8533	6.4400e-003	0.1516	0.0328	0.1844	0.0415	0.0302	0.0717		605.4543	605.4543	4.8400e-003		605.5560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0514	0.0694	0.7248	2.1800e-003	0.1788	1.5100e-003	0.1804	0.0474	1.4000e-003	0.0488		158.6922	158.6922	8.1400e-003		158.8632
<b>Total</b>	<b>0.1949</b>	<b>1.8682</b>	<b>2.5780</b>	<b>8.6200e-003</b>	<b>0.3304</b>	<b>0.0343</b>	<b>0.3648</b>	<b>0.0890</b>	<b>0.0316</b>	<b>0.1205</b>		<b>764.1465</b>	<b>764.1465</b>	<b>0.0130</b>		<b>764.4192</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7348	0.0000	0.7348	0.1113	0.0000	0.1113			0.0000			0.0000
Off-Road	3.0964	31.0154	29.6099	0.0400		1.4899	1.4899		1.3865	1.3865	0.0000	3,857.1420	3,857.1420	1.0933		3,880.1021
<b>Total</b>	<b>3.0964</b>	<b>31.0154</b>	<b>29.6099</b>	<b>0.0400</b>	<b>0.7348</b>	<b>1.4899</b>	<b>2.2247</b>	<b>0.1113</b>	<b>1.3865</b>	<b>1.4978</b>	<b>0.0000</b>	<b>3,857.1420</b>	<b>3,857.1420</b>	<b>1.0933</b>		<b>3,880.1021</b>

### 3.2 Demolition - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1435	1.7988	1.8533	6.4400e-003	0.1516	0.0328	0.1844	0.0415	0.0302	0.0717		605.4543	605.4543	4.8400e-003		605.5560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0514	0.0694	0.7248	2.1800e-003	0.1788	1.5100e-003	0.1804	0.0474	1.4000e-003	0.0488		158.6922	158.6922	8.1400e-003		158.8632
<b>Total</b>	<b>0.1949</b>	<b>1.8682</b>	<b>2.5780</b>	<b>8.6200e-003</b>	<b>0.3304</b>	<b>0.0343</b>	<b>0.3648</b>	<b>0.0890</b>	<b>0.0316</b>	<b>0.1205</b>		<b>764.1465</b>	<b>764.1465</b>	<b>0.0130</b>		<b>764.4192</b>

### 3.3 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0967	0.0000	18.0967	9.9353	0.0000	9.9353			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764		3,792.2816	3,792.2816	1.2265		3,818.0381
<b>Total</b>	<b>3.7250</b>	<b>38.8640</b>	<b>32.9264</b>	<b>0.0391</b>	<b>18.0967</b>	<b>1.9309</b>	<b>20.0276</b>	<b>9.9353</b>	<b>1.7764</b>	<b>11.7117</b>		<b>3,792.2816</b>	<b>3,792.2816</b>	<b>1.2265</b>		<b>3,818.0381</b>

### 3.3 Site Preparation - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5559	6.9678	7.1788	0.0250	0.5872	0.1270	0.7142	0.1608	0.1168	0.2776		2,345.2657	2,345.2657	0.0188		2,345.6596
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0578	0.0780	0.8154	2.4600e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		178.5287	178.5287	9.1600e-003		178.7211
<b>Total</b>	<b>0.6137</b>	<b>7.0459</b>	<b>7.9942</b>	<b>0.0274</b>	<b>0.7884</b>	<b>0.1287</b>	<b>0.9171</b>	<b>0.2142</b>	<b>0.1184</b>	<b>0.3326</b>		<b>2,523.7944</b>	<b>2,523.7944</b>	<b>0.0279</b>		<b>2,524.3807</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0577	0.0000	7.0577	3.8748	0.0000	3.8748			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764	0.0000	3,792.2816	3,792.2816	1.2265		3,818.0381
<b>Total</b>	<b>3.7250</b>	<b>38.8640</b>	<b>32.9264</b>	<b>0.0391</b>	<b>7.0577</b>	<b>1.9309</b>	<b>8.9886</b>	<b>3.8748</b>	<b>1.7764</b>	<b>5.6512</b>	<b>0.0000</b>	<b>3,792.2816</b>	<b>3,792.2816</b>	<b>1.2265</b>		<b>3,818.0381</b>

### 3.3 Site Preparation - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5559	6.9678	7.1788	0.0250	0.5872	0.1270	0.7142	0.1608	0.1168	0.2776		2,345.2657	2,345.2657	0.0188		2,345.6596
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0578	0.0780	0.8154	2.4600e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		178.5287	178.5287	9.1600e-003		178.7211
<b>Total</b>	<b>0.6137</b>	<b>7.0459</b>	<b>7.9942</b>	<b>0.0274</b>	<b>0.7884</b>	<b>0.1287</b>	<b>0.9171</b>	<b>0.2142</b>	<b>0.1184</b>	<b>0.3326</b>		<b>2,523.7944</b>	<b>2,523.7944</b>	<b>0.0279</b>		<b>2,524.3807</b>

### 3.4 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.1397	0.0000	13.1397	6.7403	0.0000	6.7403			0.0000			0.0000
Off-Road	4.4816	45.4755	38.5240	0.0501		2.3476	2.3476		2.1598	2.1598		4,856.9650	4,856.9650	1.5708		4,889.9527
<b>Total</b>	<b>4.4816</b>	<b>45.4755</b>	<b>38.5240</b>	<b>0.0501</b>	<b>13.1397</b>	<b>2.3476</b>	<b>15.4874</b>	<b>6.7403</b>	<b>2.1598</b>	<b>8.9001</b>		<b>4,856.9650</b>	<b>4,856.9650</b>	<b>1.5708</b>		<b>4,889.9527</b>

### 3.4 Grading - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6393	8.0140	8.2567	0.0287	0.6754	0.1461	0.8215	0.1850	0.1344	0.3193		2,697.4035	2,697.4035	0.0216		2,697.8566
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0771	0.1041	1.0871	3.2800e-003	0.2683	2.2700e-003	0.2705	0.0711	2.1100e-003	0.0733		238.0383	238.0383	0.0122		238.2947
<b>Total</b>	<b>0.7164</b>	<b>8.1181</b>	<b>9.3438</b>	<b>0.0320</b>	<b>0.9437</b>	<b>0.1483</b>	<b>1.0920</b>	<b>0.2561</b>	<b>0.1365</b>	<b>0.3926</b>		<b>2,935.4418</b>	<b>2,935.4418</b>	<b>0.0338</b>		<b>2,936.1513</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.1245	0.0000	5.1245	2.6287	0.0000	2.6287			0.0000			0.0000
Off-Road	4.4816	45.4755	38.5240	0.0501		2.3476	2.3476		2.1598	2.1598	0.0000	4,856.9650	4,856.9650	1.5708		4,889.9526
<b>Total</b>	<b>4.4816</b>	<b>45.4755</b>	<b>38.5240</b>	<b>0.0501</b>	<b>5.1245</b>	<b>2.3476</b>	<b>7.4721</b>	<b>2.6287</b>	<b>2.1598</b>	<b>4.7885</b>	<b>0.0000</b>	<b>4,856.9650</b>	<b>4,856.9650</b>	<b>1.5708</b>		<b>4,889.9526</b>

### 3.4 Grading - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6393	8.0140	8.2567	0.0287	0.6754	0.1461	0.8215	0.1850	0.1344	0.3193		2,697.4035	2,697.4035	0.0216		2,697.8566
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0771	0.1041	1.0871	3.2800e-003	0.2683	2.2700e-003	0.2705	0.0711	2.1100e-003	0.0733		238.0383	238.0383	0.0122		238.2947
<b>Total</b>	<b>0.7164</b>	<b>8.1181</b>	<b>9.3438</b>	<b>0.0320</b>	<b>0.9437</b>	<b>0.1483</b>	<b>1.0920</b>	<b>0.2561</b>	<b>0.1365</b>	<b>0.3926</b>		<b>2,935.4418</b>	<b>2,935.4418</b>	<b>0.0338</b>		<b>2,936.1513</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194		2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>		<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>		<b>2,555.4880</b>



### 3.5 Building Construction - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4312	3.6348	6.3902	0.0130	0.3745	0.0603	0.4349	0.1066	0.0555	0.1621		1,214.3355	1,214.3355	9.2400e-003			1,214.5296
Worker	0.4305	0.5810	6.0699	0.0183	1.4978	0.0127	1.5105	0.3972	0.0118	0.4090		1,329.0472	1,329.0472	0.0682			1,330.4790
<b>Total</b>	<b>0.8617</b>	<b>4.2158</b>	<b>12.4601</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0730</b>	<b>1.9454</b>	<b>0.5038</b>	<b>0.0673</b>	<b>0.5711</b>		<b>2,543.3827</b>	<b>2,543.3827</b>	<b>0.0774</b>			<b>2,545.0086</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465	0.0000	2,542.4799	2,542.4799	0.6194			2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>	<b>0.0000</b>	<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>			<b>2,555.4880</b>

### 3.5 Building Construction - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4312	3.6348	6.3902	0.0130	0.3745	0.0603	0.4349	0.1066	0.0555	0.1621		1,214.3355	1,214.3355	9.2400e-003		1,214.5296
Worker	0.4305	0.5810	6.0699	0.0183	1.4978	0.0127	1.5105	0.3972	0.0118	0.4090		1,329.0472	1,329.0472	0.0682		1,330.4790
<b>Total</b>	<b>0.8617</b>	<b>4.2158</b>	<b>12.4601</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0730</b>	<b>1.9454</b>	<b>0.5038</b>	<b>0.0673</b>	<b>0.5711</b>		<b>2,543.3827</b>	<b>2,543.3827</b>	<b>0.0774</b>		<b>2,545.0086</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979		2,542.7817	2,542.7817	0.6126		2,555.6462
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>		<b>2,542.7817</b>	<b>2,542.7817</b>	<b>0.6126</b>		<b>2,555.6462</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4158	3.0920	6.2328	0.0130	0.3745	0.0549	0.4294	0.1066	0.0505	0.1571		1,213.3974	1,213.3974	9.3100e-003			1,213.5930
Worker	0.4070	0.5423	5.6926	0.0183	1.4978	0.0126	1.5105	0.3972	0.0117	0.4090		1,308.1684	1,308.1684	0.0652			1,309.5380
<b>Total</b>	<b>0.8228</b>	<b>3.6343</b>	<b>11.9254</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0676</b>	<b>1.9399</b>	<b>0.5038</b>	<b>0.0622</b>	<b>0.5661</b>		<b>2,521.5658</b>	<b>2,521.5658</b>	<b>0.0745</b>			<b>2,523.1310</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979	0.0000	2,542.7817	2,542.7817	0.6126			2,555.6462
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>	<b>0.0000</b>	<b>2,542.7817</b>	<b>2,542.7817</b>	<b>0.6126</b>			<b>2,555.6462</b>

### 3.5 Building Construction - 2021

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4158	3.0920	6.2328	0.0130	0.3745	0.0549	0.4294	0.1066	0.0505	0.1571		1,213.3974	1,213.3974	9.3100e-003			1,213.5930
Worker	0.4070	0.5423	5.6926	0.0183	1.4978	0.0126	1.5105	0.3972	0.0117	0.4090		1,308.1684	1,308.1684	0.0652			1,309.5380
<b>Total</b>	<b>0.8228</b>	<b>3.6343</b>	<b>11.9254</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0676</b>	<b>1.9399</b>	<b>0.5038</b>	<b>0.0622</b>	<b>0.5661</b>		<b>2,521.5658</b>	<b>2,521.5658</b>	<b>0.0745</b>			<b>2,523.1310</b>

### 3.5 Building Construction - 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	lb/day										lb/day						
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581		2,543.7497	2,543.7497	0.6085			2,556.5286
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>		<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>			<b>2,556.5286</b>

### 3.5 Building Construction - 2022

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4064	2.8075	6.0782	0.0130	0.3745	0.0543	0.4288	0.1066	0.0500	0.1566		1,212.3977	1,212.3977	9.5200e-003			1,212.5977
Worker	0.3850	0.5075	5.3397	0.0183	1.4978	0.0126	1.5104	0.3972	0.0117	0.4089		1,286.3473	1,286.3473	0.0624			1,287.6580
<b>Total</b>	<b>0.7914</b>	<b>3.3150</b>	<b>11.4179</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0669</b>	<b>1.9392</b>	<b>0.5038</b>	<b>0.0616</b>	<b>0.5655</b>		<b>2,498.7450</b>	<b>2,498.7450</b>	<b>0.0719</b>			<b>2,500.2556</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581	0.0000	2,543.7497	2,543.7497	0.6085			2,556.5286
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>	<b>0.0000</b>	<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>			<b>2,556.5286</b>

### 3.5 Building Construction - 2022

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4064	2.8075	6.0782	0.0130	0.3745	0.0543	0.4288	0.1066	0.0500	0.1566		1,212.3977	1,212.3977	9.5200e-003			1,212.5977
Worker	0.3850	0.5075	5.3397	0.0183	1.4978	0.0126	1.5104	0.3972	0.0117	0.4089		1,286.3473	1,286.3473	0.0624			1,287.6580
<b>Total</b>	<b>0.7914</b>	<b>3.3150</b>	<b>11.4179</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0669</b>	<b>1.9392</b>	<b>0.5038</b>	<b>0.0616</b>	<b>0.5655</b>		<b>2,498.7450</b>	<b>2,498.7450</b>	<b>0.0719</b>			<b>2,500.2556</b>

### 3.5 Building Construction - 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	lb/day										lb/day						
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557		2,544.6262	2,544.6262	0.6044			2,557.3191
<b>Total</b>	<b>1.5661</b>	<b>14.3126</b>	<b>16.2093</b>	<b>0.0268</b>		<b>0.6967</b>	<b>0.6967</b>		<b>0.6557</b>	<b>0.6557</b>		<b>2,544.6262</b>	<b>2,544.6262</b>	<b>0.6044</b>			<b>2,557.3191</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3777	2.2303	5.8606	0.0129	0.3746	0.0536	0.4282	0.1066	0.0493	0.1559		1,206.6435	1,206.6435	8.5800e-003			1,206.8237
Worker	0.3642	0.4763	5.0139	0.0183	1.4978	0.0125	1.5103	0.3972	0.0116	0.4088		1,266.2962	1,266.2962	0.0599			1,267.5542
<b>Total</b>	<b>0.7419</b>	<b>2.7066</b>	<b>10.8745</b>	<b>0.0312</b>	<b>1.8724</b>	<b>0.0662</b>	<b>1.9385</b>	<b>0.5038</b>	<b>0.0610</b>	<b>0.5648</b>		<b>2,472.9397</b>	<b>2,472.9397</b>	<b>0.0685</b>			<b>2,474.3779</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557	0.0000	2,544.6262	2,544.6262	0.6044			2,557.3191
<b>Total</b>	<b>1.5661</b>	<b>14.3126</b>	<b>16.2093</b>	<b>0.0268</b>		<b>0.6967</b>	<b>0.6967</b>		<b>0.6557</b>	<b>0.6557</b>	<b>0.0000</b>	<b>2,544.6262</b>	<b>2,544.6262</b>	<b>0.6044</b>			<b>2,557.3191</b>

### 3.5 Building Construction - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3777	2.2303	5.8606	0.0129	0.3746	0.0536	0.4282	0.1066	0.0493	0.1559		1,206.6435	1,206.6435	8.5800e-003			1,206.8237
Worker	0.3642	0.4763	5.0139	0.0183	1.4978	0.0125	1.5103	0.3972	0.0116	0.4088		1,266.2962	1,266.2962	0.0599			1,267.5542
<b>Total</b>	<b>0.7419</b>	<b>2.7066</b>	<b>10.8745</b>	<b>0.0312</b>	<b>1.8724</b>	<b>0.0662</b>	<b>1.9385</b>	<b>0.5038</b>	<b>0.0610</b>	<b>0.5648</b>		<b>2,472.9397</b>	<b>2,472.9397</b>	<b>0.0685</b>			<b>2,474.3779</b>

### 3.6 Paving - 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	lb/day										lb/day						
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609		2,160.6139	2,160.6139	0.6988			2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.0128</b>	<b>9.9983</b>	<b>14.2850</b>	<b>0.0223</b>		<b>0.5010</b>	<b>0.5010</b>		<b>0.4609</b>	<b>0.4609</b>		<b>2,160.6139</b>	<b>2,160.6139</b>	<b>0.6988</b>			<b>2,175.2884</b>



### 3.6 Paving - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0435	0.0569	0.5987	2.1900e-003	0.1788	1.5000e-003	0.1803	0.0474	1.3900e-003	0.0488		151.1996	151.1996	7.1500e-003		151.3498
<b>Total</b>	<b>0.0435</b>	<b>0.0569</b>	<b>0.5987</b>	<b>2.1900e-003</b>	<b>0.1788</b>	<b>1.5000e-003</b>	<b>0.1803</b>	<b>0.0474</b>	<b>1.3900e-003</b>	<b>0.0488</b>		<b>151.1996</b>	<b>151.1996</b>	<b>7.1500e-003</b>		<b>151.3498</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609	0.0000	2,160.6139	2,160.6139	0.6988		2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0128</b>	<b>9.9983</b>	<b>14.2850</b>	<b>0.0223</b>		<b>0.5010</b>	<b>0.5010</b>		<b>0.4609</b>	<b>0.4609</b>	<b>0.0000</b>	<b>2,160.6139</b>	<b>2,160.6139</b>	<b>0.6988</b>		<b>2,175.2884</b>

### 3.6 Paving - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0435	0.0569	0.5987	2.1900e-003	0.1788	1.5000e-003	0.1803	0.0474	1.3900e-003	0.0488		151.1996	151.1996	7.1500e-003			151.3498
<b>Total</b>	<b>0.0435</b>	<b>0.0569</b>	<b>0.5987</b>	<b>2.1900e-003</b>	<b>0.1788</b>	<b>1.5000e-003</b>	<b>0.1803</b>	<b>0.0474</b>	<b>1.3900e-003</b>	<b>0.0488</b>		<b>151.1996</b>	<b>151.1996</b>	<b>7.1500e-003</b>			<b>151.3498</b>

### 3.7 Architectural Coating - 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	lb/day										lb/day						
Archit. Coating	522.0748					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>522.2665</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</b>

### 3.7 Architectural Coating - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0761	0.0995	1.0477	3.8300e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4300e-003	0.0854		264.5992	264.5992	0.0125			264.8621
<b>Total</b>	<b>0.0761</b>	<b>0.0995</b>	<b>1.0477</b>	<b>3.8300e-003</b>	<b>0.3130</b>	<b>2.6200e-003</b>	<b>0.3156</b>	<b>0.0830</b>	<b>2.4300e-003</b>	<b>0.0854</b>		<b>264.5992</b>	<b>264.5992</b>	<b>0.0125</b>			<b>264.8621</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	522.0748					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>522.2665</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</b>

### 3.7 Architectural Coating - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0761	0.0995	1.0477	3.8300e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4300e-003	0.0854		264.5992	264.5992	0.0125			264.8621
<b>Total</b>	<b>0.0761</b>	<b>0.0995</b>	<b>1.0477</b>	<b>3.8300e-003</b>	<b>0.3130</b>	<b>2.6200e-003</b>	<b>0.3156</b>	<b>0.0830</b>	<b>2.4300e-003</b>	<b>0.0854</b>		<b>264.5992</b>	<b>264.5992</b>	<b>0.0125</b>			<b>264.8621</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000

**AMC Construction - Unmitigated**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	262.55	1000sqft	5.21	262,550.00	0
Other Non-Asphalt Surfaces	188.00	1000sqft	4.32	188,000.00	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>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Construction only.

Land Use - Total site acreage = 9.53 acres.

Construction Phase - Project schedule from Metro.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Round trips accounted for.

Demolition -

Grading - During site preparation, approximately 280,460 square feet of asphalt surface and 26,000 square feet of concrete surface will be removed.

Vehicle Trips - Construction Only.

Area Coating - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Comply with SCAQMD Rule 403 for Fugitive Dust Control.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	225275	0
tblAreaCoating	Area_Nonresidential_Interior	675825	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	230.00	675.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/4/2023	7/7/2023
tblConstructionPhase	PhaseStartDate	7/8/2023	6/12/2023

tblConstructionPhase	PhaseStartDate	11/7/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	8/29/2020	8/31/2020
tblConstructionPhase	PhaseStartDate	6/10/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	8/1/2020	8/3/2020
tblEnergyUse	LightingElect	4.25	0.00
tblEnergyUse	NT24E	4.79	0.00
tblEnergyUse	NT24NG	0.19	0.00
tblEnergyUse	T24E	6.86	0.00
tblEnergyUse	T24NG	10.10	0.00
tblGrading	MaterialExported	0.00	15,500.00
tblGrading	MaterialExported	0.00	6,810.25
tblLandUse	LotAcreage	6.03	5.21
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024
tblSolidWaste	SolidWasteGenerationRate	244.17	0.00
tblTripsAndVMT	HaulingTripNumber	673.00	674.00
tblTripsAndVMT	VendorTripNumber	74.00	60.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblTripsAndVMT	WorkerTripNumber	163.00	134.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	33.00	28.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblWater	IndoorWaterUseRate	46,663,995.54	0.00

tblWater	OutdoorWaterUseRate	28,600,513.39	0.00
----------	---------------------	---------------	------

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.1671	53.3136	46.7196	0.0823	18.8852	2.4956	20.9444	10.1495	2.2960	12.0440	0.0000	7,813.0221	7,813.0221	1.6043	0.0000	7,846.7129
2021	2.6688	20.8522	27.6587	0.0593	1.8723	1.0220	2.8943	0.5038	0.9597	1.4635	0.0000	5,152.9643	5,152.9643	0.6868	0.0000	5,167.3873
2022	2.4459	18.7389	26.9538	0.0593	1.8723	0.8722	2.7445	0.5038	0.8194	1.3232	0.0000	5,129.9033	5,129.9033	0.6801	0.0000	5,144.1859
2023	523.3949	16.9314	26.2989	0.0593	1.8724	0.7624	2.6348	0.5038	0.7162	1.2200	0.0000	5,103.8858	5,103.8858	0.7353	0.0000	5,119.3270
<b>Total</b>	<b>533.6766</b>	<b>109.8362</b>	<b>127.6310</b>	<b>0.2602</b>	<b>24.5022</b>	<b>5.1523</b>	<b>29.2181</b>	<b>11.6609</b>	<b>4.7913</b>	<b>16.0507</b>	<b>0.0000</b>	<b>23,199.7754</b>	<b>23,199.7754</b>	<b>3.7066</b>	<b>0.0000</b>	<b>23,277.6130</b>





	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/6/2020	7/31/2020	5	20	
2	Site Preparation	Site Preparation	8/3/2020	8/28/2020	5	20	
3	Grading	Grading	8/31/2020	11/6/2020	5	50	
4	Building Construction	Building Construction	11/9/2020	6/9/2023	5	675	
5	Paving	Paving	6/12/2023	7/7/2023	5	20	
6	Architectural Coating	Architectural Coating	6/12/2023	7/7/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 675,825; Non-Residential Outdoor: 225,275 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	174.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	674.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	24.00	0.00	1,938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	134.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8841	0.0000	1.8841	0.2853	0.0000	0.2853			0.0000			0.0000
Off-Road	3.0964	31.0154	29.6099	0.0400		1.4899	1.4899		1.3865	1.3865		3,857.1420	3,857.1420	1.0933		3,880.1021
<b>Total</b>	<b>3.0964</b>	<b>31.0154</b>	<b>29.6099</b>	<b>0.0400</b>	<b>1.8841</b>	<b>1.4899</b>	<b>3.3739</b>	<b>0.2853</b>	<b>1.3865</b>	<b>1.6718</b>		<b>3,857.1420</b>	<b>3,857.1420</b>	<b>1.0933</b>		<b>3,880.1021</b>

### 3.2 Demolition - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1371	1.7383	1.5763	6.4500e-003	0.1516	0.0327	0.1843	0.0415	0.0301	0.0716		606.8875	606.8875	4.7700e-003		606.9877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0497	0.0626	0.7821	2.3200e-003	0.1788	1.5100e-003	0.1804	0.0474	1.4000e-003	0.0488		168.1792	168.1792	8.1400e-003		168.3501
<b>Total</b>	<b>0.1868</b>	<b>1.8008</b>	<b>2.3583</b>	<b>8.7700e-003</b>	<b>0.3304</b>	<b>0.0342</b>	<b>0.3647</b>	<b>0.0890</b>	<b>0.0315</b>	<b>0.1204</b>		<b>775.0666</b>	<b>775.0666</b>	<b>0.0129</b>		<b>775.3379</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7348	0.0000	0.7348	0.1113	0.0000	0.1113			0.0000			0.0000
Off-Road	3.0964	31.0154	29.6099	0.0400		1.4899	1.4899		1.3865	1.3865	0.0000	3,857.1420	3,857.1420	1.0933		3,880.1021
<b>Total</b>	<b>3.0964</b>	<b>31.0154</b>	<b>29.6099</b>	<b>0.0400</b>	<b>0.7348</b>	<b>1.4899</b>	<b>2.2247</b>	<b>0.1113</b>	<b>1.3865</b>	<b>1.4978</b>	<b>0.0000</b>	<b>3,857.1420</b>	<b>3,857.1420</b>	<b>1.0933</b>		<b>3,880.1021</b>

### 3.2 Demolition - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1371	1.7383	1.5763	6.4500e-003	0.1516	0.0327	0.1843	0.0415	0.0301	0.0716		606.8875	606.8875	4.7700e-003		606.9877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0497	0.0626	0.7821	2.3200e-003	0.1788	1.5100e-003	0.1804	0.0474	1.4000e-003	0.0488		168.1792	168.1792	8.1400e-003		168.3501
<b>Total</b>	<b>0.1868</b>	<b>1.8008</b>	<b>2.3583</b>	<b>8.7700e-003</b>	<b>0.3304</b>	<b>0.0342</b>	<b>0.3647</b>	<b>0.0890</b>	<b>0.0315</b>	<b>0.1204</b>		<b>775.0666</b>	<b>775.0666</b>	<b>0.0129</b>		<b>775.3379</b>

### 3.3 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0967	0.0000	18.0967	9.9353	0.0000	9.9353			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764		3,792.2816	3,792.2816	1.2265		3,818.0381
<b>Total</b>	<b>3.7250</b>	<b>38.8640</b>	<b>32.9264</b>	<b>0.0391</b>	<b>18.0967</b>	<b>1.9309</b>	<b>20.0276</b>	<b>9.9353</b>	<b>1.7764</b>	<b>11.7117</b>		<b>3,792.2816</b>	<b>3,792.2816</b>	<b>1.2265</b>		<b>3,818.0381</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5312	6.7332	6.1057	0.0250	0.5872	0.1267	0.7140	0.1608	0.1166	0.2774		2,350.8170	2,350.8170	0.0185		2,351.2054
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939
<b>Total</b>	<b>0.5870</b>	<b>6.8036</b>	<b>6.9856</b>	<b>0.0276</b>	<b>0.7884</b>	<b>0.1284</b>	<b>0.9169</b>	<b>0.2142</b>	<b>0.1182</b>	<b>0.3323</b>		<b>2,540.0185</b>	<b>2,540.0185</b>	<b>0.0277</b>		<b>2,540.5993</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0577	0.0000	7.0577	3.8748	0.0000	3.8748			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764	0.0000	3,792.2816	3,792.2816	1.2265		3,818.0381
<b>Total</b>	<b>3.7250</b>	<b>38.8640</b>	<b>32.9264</b>	<b>0.0391</b>	<b>7.0577</b>	<b>1.9309</b>	<b>8.9886</b>	<b>3.8748</b>	<b>1.7764</b>	<b>5.6512</b>	<b>0.0000</b>	<b>3,792.2816</b>	<b>3,792.2816</b>	<b>1.2265</b>		<b>3,818.0381</b>

### 3.3 Site Preparation - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5312	6.7332	6.1057	0.0250	0.5872	0.1267	0.7140	0.1608	0.1166	0.2774		2,350.8170	2,350.8170	0.0185		2,351.2054
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939
<b>Total</b>	<b>0.5870</b>	<b>6.8036</b>	<b>6.9856</b>	<b>0.0276</b>	<b>0.7884</b>	<b>0.1284</b>	<b>0.9169</b>	<b>0.2142</b>	<b>0.1182</b>	<b>0.3323</b>		<b>2,540.0185</b>	<b>2,540.0185</b>	<b>0.0277</b>		<b>2,540.5993</b>

### 3.4 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.1397	0.0000	13.1397	6.7403	0.0000	6.7403			0.0000			0.0000
Off-Road	4.4816	45.4755	38.5240	0.0501		2.3476	2.3476		2.1598	2.1598		4,856.9650	4,856.9650	1.5708		4,889.9527
<b>Total</b>	<b>4.4816</b>	<b>45.4755</b>	<b>38.5240</b>	<b>0.0501</b>	<b>13.1397</b>	<b>2.3476</b>	<b>15.4874</b>	<b>6.7403</b>	<b>2.1598</b>	<b>8.9001</b>		<b>4,856.9650</b>	<b>4,856.9650</b>	<b>1.5708</b>		<b>4,889.9527</b>



### 3.4 Grading - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6109	7.7442	7.0225	0.0288	0.6754	0.1457	0.8212	0.1850	0.1341	0.3190		2,703.7883	2,703.7883	0.0213		2,704.2351
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0745	0.0939	1.1731	3.4700e-003	0.2683	2.2700e-003	0.2705	0.0711	2.1100e-003	0.0733		252.2687	252.2687	0.0122		252.5252
<b>Total</b>	<b>0.6854</b>	<b>7.8381</b>	<b>8.1956</b>	<b>0.0322</b>	<b>0.9437</b>	<b>0.1480</b>	<b>1.0917</b>	<b>0.2561</b>	<b>0.1362</b>	<b>0.3923</b>		<b>2,956.0571</b>	<b>2,956.0571</b>	<b>0.0335</b>		<b>2,956.7602</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.1245	0.0000	5.1245	2.6287	0.0000	2.6287			0.0000			0.0000
Off-Road	4.4816	45.4755	38.5240	0.0501		2.3476	2.3476		2.1598	2.1598	0.0000	4,856.9650	4,856.9650	1.5708		4,889.9526
<b>Total</b>	<b>4.4816</b>	<b>45.4755</b>	<b>38.5240</b>	<b>0.0501</b>	<b>5.1245</b>	<b>2.3476</b>	<b>7.4721</b>	<b>2.6287</b>	<b>2.1598</b>	<b>4.7885</b>	<b>0.0000</b>	<b>4,856.9650</b>	<b>4,856.9650</b>	<b>1.5708</b>		<b>4,889.9526</b>

### 3.4 Grading - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6109	7.7442	7.0225	0.0288	0.6754	0.1457	0.8212	0.1850	0.1341	0.3190		2,703.788 3	2,703.788 3	0.0213		2,704.235 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0745	0.0939	1.1731	3.4700e-003	0.2683	2.2700e-003	0.2705	0.0711	2.1100e-003	0.0733		252.2687	252.2687	0.0122		252.5252
<b>Total</b>	<b>0.6854</b>	<b>7.8381</b>	<b>8.1956</b>	<b>0.0322</b>	<b>0.9437</b>	<b>0.1480</b>	<b>1.0917</b>	<b>0.2561</b>	<b>0.1362</b>	<b>0.3923</b>		<b>2,956.057 1</b>	<b>2,956.057 1</b>	<b>0.0335</b>		<b>2,956.760 2</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.479 9	2,542.479 9	0.6194		2,555.488 0
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>		<b>2,542.479 9</b>	<b>2,542.479 9</b>	<b>0.6194</b>		<b>2,555.488 0</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3954	3.5534	5.1152	0.0131	0.3745	0.0598	0.4343	0.1066	0.0550	0.1616		1,224.6290	1,224.6290	8.9400e-003			1,224.8167
Worker	0.4161	0.5242	6.5499	0.0194	1.4978	0.0127	1.5105	0.3972	0.0118	0.4090		1,408.5004	1,408.5004	0.0682			1,409.9322
<b>Total</b>	<b>0.8114</b>	<b>4.0775</b>	<b>11.6651</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0725</b>	<b>1.9448</b>	<b>0.5038</b>	<b>0.0668</b>	<b>0.5706</b>		<b>2,633.1294</b>	<b>2,633.1294</b>	<b>0.0771</b>			<b>2,634.7489</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465	0.0000	2,542.4799	2,542.4799	0.6194			2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>	<b>0.0000</b>	<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>			<b>2,555.4880</b>

### 3.5 Building Construction - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3954	3.5534	5.1152	0.0131	0.3745	0.0598	0.4343	0.1066	0.0550	0.1616		1,224.6290	1,224.6290	8.9400e-003			1,224.8167
Worker	0.4161	0.5242	6.5499	0.0194	1.4978	0.0127	1.5105	0.3972	0.0118	0.4090		1,408.5004	1,408.5004	0.0682			1,409.9322
<b>Total</b>	<b>0.8114</b>	<b>4.0775</b>	<b>11.6651</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0725</b>	<b>1.9448</b>	<b>0.5038</b>	<b>0.0668</b>	<b>0.5706</b>		<b>2,633.1294</b>	<b>2,633.1294</b>	<b>0.0771</b>			<b>2,634.7489</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979		2,542.7817	2,542.7817	0.6126			2,555.6462
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>		<b>2,542.7817</b>	<b>2,542.7817</b>	<b>0.6126</b>			<b>2,555.6462</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3822	3.0226	4.9682	0.0131	0.3745	0.0545	0.4290	0.1066	0.0501	0.1567		1,223.6921	1,223.6921	9.0000e-003			1,223.8810
Worker	0.3935	0.4894	6.1529	0.0194	1.4978	0.0126	1.5105	0.3972	0.0117	0.4090		1,386.4905	1,386.4905	0.0652			1,387.8601
<b>Total</b>	<b>0.7757</b>	<b>3.5120</b>	<b>11.1211</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0671</b>	<b>1.9395</b>	<b>0.5038</b>	<b>0.0618</b>	<b>0.5657</b>		<b>2,610.1826</b>	<b>2,610.1826</b>	<b>0.0742</b>			<b>2,611.7411</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979	0.0000	2,542.7817	2,542.7817	0.6126			2,555.6462
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>	<b>0.0000</b>	<b>2,542.7817</b>	<b>2,542.7817</b>	<b>0.6126</b>			<b>2,555.6462</b>

### 3.5 Building Construction - 2021

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3822	3.0226	4.9682	0.0131	0.3745	0.0545	0.4290	0.1066	0.0501	0.1567		1,223.6921	1,223.6921	9.0000e-003			1,223.8810
Worker	0.3935	0.4894	6.1529	0.0194	1.4978	0.0126	1.5105	0.3972	0.0117	0.4090		1,386.4905	1,386.4905	0.0652			1,387.8601
<b>Total</b>	<b>0.7757</b>	<b>3.5120</b>	<b>11.1211</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0671</b>	<b>1.9395</b>	<b>0.5038</b>	<b>0.0618</b>	<b>0.5657</b>		<b>2,610.1826</b>	<b>2,610.1826</b>	<b>0.0742</b>			<b>2,611.7411</b>

### 3.5 Building Construction - 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	lb/day										lb/day						
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581		2,543.7497	2,543.7497	0.6085			2,556.5286
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>		<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>			<b>2,556.5286</b>

### 3.5 Building Construction - 2022

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3745	2.7443	4.8457	0.0131	0.3745	0.0539	0.4284	0.1066	0.0496	0.1562		1,222.6855	1,222.6855	9.1900e-003			1,222.8785
Worker	0.3722	0.4582	5.7806	0.0194	1.4978	0.0126	1.5104	0.3972	0.0117	0.4089		1,363.4681	1,363.4681	0.0624			1,364.7787
<b>Total</b>	<b>0.7467</b>	<b>3.2025</b>	<b>10.6263</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0665</b>	<b>1.9388</b>	<b>0.5038</b>	<b>0.0612</b>	<b>0.5651</b>		<b>2,586.1536</b>	<b>2,586.1536</b>	<b>0.0716</b>			<b>2,587.6573</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581	0.0000	2,543.7497	2,543.7497	0.6085			2,556.5286
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>	<b>0.0000</b>	<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>			<b>2,556.5286</b>

### 3.5 Building Construction - 2022

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3745	2.7443	4.8457	0.0131	0.3745	0.0539	0.4284	0.1066	0.0496	0.1562		1,222.6855	1,222.6855	9.1900e-003			1,222.8785
Worker	0.3722	0.4582	5.7806	0.0194	1.4978	0.0126	1.5104	0.3972	0.0117	0.4089		1,363.4681	1,363.4681	0.0624			1,364.7787
<b>Total</b>	<b>0.7467</b>	<b>3.2025</b>	<b>10.6263</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0665</b>	<b>1.9388</b>	<b>0.5038</b>	<b>0.0612</b>	<b>0.5651</b>		<b>2,586.1536</b>	<b>2,586.1536</b>	<b>0.0716</b>			<b>2,587.6573</b>

### 3.5 Building Construction - 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	lb/day										lb/day						
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557		2,544.6262	2,544.6262	0.6044			2,557.3191
<b>Total</b>	<b>1.5661</b>	<b>14.3126</b>	<b>16.2093</b>	<b>0.0268</b>		<b>0.6967</b>	<b>0.6967</b>		<b>0.6557</b>	<b>0.6557</b>		<b>2,544.6262</b>	<b>2,544.6262</b>	<b>0.6044</b>			<b>2,557.3191</b>



### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3470	2.1885	4.6525	0.0130	0.3746	0.0532	0.4277	0.1066	0.0489	0.1555		1,216.933 2	1,216.933 2	8.2500e- 003			1,217.106 5
Worker	0.3520	0.4303	5.4371	0.0194	1.4978	0.0125	1.5103	0.3972	0.0116	0.4088		1,342.326 3	1,342.326 3	0.0599			1,343.584 3
<b>Total</b>	<b>0.6990</b>	<b>2.6188</b>	<b>10.0896</b>	<b>0.0324</b>	<b>1.8724</b>	<b>0.0657</b>	<b>1.9381</b>	<b>0.5038</b>	<b>0.0606</b>	<b>0.5644</b>		<b>2,559.259 5</b>	<b>2,559.259 5</b>	<b>0.0682</b>			<b>2,560.690 9</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557	0.0000	2,544.626 2	2,544.626 2	0.6044			2,557.319 1
<b>Total</b>	<b>1.5661</b>	<b>14.3126</b>	<b>16.2093</b>	<b>0.0268</b>		<b>0.6967</b>	<b>0.6967</b>		<b>0.6557</b>	<b>0.6557</b>	<b>0.0000</b>	<b>2,544.626 2</b>	<b>2,544.626 2</b>	<b>0.6044</b>			<b>2,557.319 1</b>

### 3.5 Building Construction - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3470	2.1885	4.6525	0.0130	0.3746	0.0532	0.4277	0.1066	0.0489	0.1555		1,216.933 2	1,216.933 2	8.2500e- 003			1,217.106 5
Worker	0.3520	0.4303	5.4371	0.0194	1.4978	0.0125	1.5103	0.3972	0.0116	0.4088		1,342.326 3	1,342.326 3	0.0599			1,343.584 3
<b>Total</b>	<b>0.6990</b>	<b>2.6188</b>	<b>10.0896</b>	<b>0.0324</b>	<b>1.8724</b>	<b>0.0657</b>	<b>1.9381</b>	<b>0.5038</b>	<b>0.0606</b>	<b>0.5644</b>		<b>2,559.259 5</b>	<b>2,559.259 5</b>	<b>0.0682</b>			<b>2,560.690 9</b>

### 3.6 Paving - 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	lb/day										lb/day						
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609		2,160.613 9	2,160.613 9	0.6988			2,175.288 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.0128</b>	<b>9.9983</b>	<b>14.2850</b>	<b>0.0223</b>		<b>0.5010</b>	<b>0.5010</b>		<b>0.4609</b>	<b>0.4609</b>		<b>2,160.613 9</b>	<b>2,160.613 9</b>	<b>0.6988</b>			<b>2,175.288 4</b>

### 3.6 Paving - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0420	0.0514	0.6492	2.3200e-003	0.1788	1.5000e-003	0.1803	0.0474	1.3900e-003	0.0488		160.2778	160.2778	7.1500e-003			160.4280
<b>Total</b>	<b>0.0420</b>	<b>0.0514</b>	<b>0.6492</b>	<b>2.3200e-003</b>	<b>0.1788</b>	<b>1.5000e-003</b>	<b>0.1803</b>	<b>0.0474</b>	<b>1.3900e-003</b>	<b>0.0488</b>		<b>160.2778</b>	<b>160.2778</b>	<b>7.1500e-003</b>			<b>160.4280</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609	0.0000	2,160.6139	2,160.6139	0.6988			2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.0128</b>	<b>9.9983</b>	<b>14.2850</b>	<b>0.0223</b>		<b>0.5010</b>	<b>0.5010</b>		<b>0.4609</b>	<b>0.4609</b>	<b>0.0000</b>	<b>2,160.6139</b>	<b>2,160.6139</b>	<b>0.6988</b>			<b>2,175.2884</b>

### 3.6 Paving - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0420	0.0514	0.6492	2.3200e-003	0.1788	1.5000e-003	0.1803	0.0474	1.3900e-003	0.0488		160.2778	160.2778	7.1500e-003			160.4280
<b>Total</b>	<b>0.0420</b>	<b>0.0514</b>	<b>0.6492</b>	<b>2.3200e-003</b>	<b>0.1788</b>	<b>1.5000e-003</b>	<b>0.1803</b>	<b>0.0474</b>	<b>1.3900e-003</b>	<b>0.0488</b>		<b>160.2778</b>	<b>160.2778</b>	<b>7.1500e-003</b>			<b>160.4280</b>

### 3.7 Architectural Coating - 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	lb/day										lb/day						
Archit. Coating	522.0748					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>522.2665</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</b>

### 3.7 Architectural Coating - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0736	0.0899	1.1361	4.0600e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4300e-003	0.0854		280.4861	280.4861	0.0125			280.7490
<b>Total</b>	<b>0.0736</b>	<b>0.0899</b>	<b>1.1361</b>	<b>4.0600e-003</b>	<b>0.3130</b>	<b>2.6200e-003</b>	<b>0.3156</b>	<b>0.0830</b>	<b>2.4300e-003</b>	<b>0.0854</b>		<b>280.4861</b>	<b>280.4861</b>	<b>0.0125</b>			<b>280.7490</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	522.0748					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>522.2665</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</b>

### 3.7 Architectural Coating - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0736	0.0899	1.1361	4.0600e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4300e-003	0.0854		280.4861	280.4861	0.0125			280.7490
<b>Total</b>	<b>0.0736</b>	<b>0.0899</b>	<b>1.1361</b>	<b>4.0600e-003</b>	<b>0.3130</b>	<b>2.6200e-003</b>	<b>0.3156</b>	<b>0.0830</b>	<b>2.4300e-003</b>	<b>0.0854</b>		<b>280.4861</b>	<b>280.4861</b>	<b>0.0125</b>			<b>280.7490</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000

**AMC Construction - Unmitigated**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	262.55	1000sqft	5.21	262,550.00	0
Other Non-Asphalt Surfaces	188.00	1000sqft	4.32	188,000.00	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>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Construction only.

Land Use - Total site acreage = 9.53 acres.

Construction Phase - Project schedule from Metro.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Round trips accounted for.

Demolition -

Grading - During site preparation, approximately 280,460 square feet of asphalt surface and 26,000 square feet of concrete surface will be removed.

Vehicle Trips - Construction Only.

Area Coating - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Comply with SCAQMD Rule 403 for Fugitive Dust Control.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	225275	0
tblAreaCoating	Area_Nonresidential_Interior	675825	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	230.00	675.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/4/2023	7/7/2023
tblConstructionPhase	PhaseStartDate	7/8/2023	6/12/2023



tblConstructionPhase	PhaseStartDate	11/7/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	8/29/2020	8/31/2020
tblConstructionPhase	PhaseStartDate	6/10/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	8/1/2020	8/3/2020
tblEnergyUse	LightingElect	4.25	0.00
tblEnergyUse	NT24E	4.79	0.00
tblEnergyUse	NT24NG	0.19	0.00
tblEnergyUse	T24E	6.86	0.00
tblEnergyUse	T24NG	10.10	0.00
tblGrading	MaterialExported	0.00	15,500.00
tblGrading	MaterialExported	0.00	6,810.25
tblLandUse	LotAcreage	6.03	5.21
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024
tblSolidWaste	SolidWasteGenerationRate	244.17	0.00
tblTripsAndVMT	HaulingTripNumber	673.00	674.00
tblTripsAndVMT	VendorTripNumber	74.00	60.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblTripsAndVMT	WorkerTripNumber	163.00	134.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	33.00	28.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblWater	IndoorWaterUseRate	46,663,995.54	0.00

tblWater	OutdoorWaterUseRate	28,600,513.39	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					
2020	0.2629	2.5890	2.4868	4.3500e-003	0.5983	0.1214	0.7196	0.2897	0.1122	0.4019	0.0000	366.6632	366.6632	0.0701	0.0000	368.1359
2021	0.3495	2.7469	3.6936	7.6300e-003	0.2397	0.1334	0.3731	0.0646	0.1253	0.1899	0.0000	602.7690	602.7690	0.0813	0.0000	604.4768
2022	0.3191	2.4595	3.5854	7.6000e-003	0.2388	0.1134	0.3522	0.0644	0.1065	0.1709	0.0000	597.8436	597.8436	0.0802	0.0000	599.5283
2023	5.3646	1.0965	1.7255	3.6700e-003	0.1104	0.0496	0.1600	0.0298	0.0466	0.0763	0.0000	289.1024	289.1024	0.0418	0.0000	289.9794
<b>Total</b>	<b>6.2962</b>	<b>8.8919</b>	<b>11.4913</b>	<b>0.0233</b>	<b>1.1872</b>	<b>0.4178</b>	<b>1.6049</b>	<b>0.4484</b>	<b>0.3906</b>	<b>0.8390</b>	<b>0.0000</b>	<b>1,856.3782</b>	<b>1,856.3782</b>	<b>0.2735</b>	<b>0.0000</b>	<b>1,862.1205</b>



Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/6/2020	7/31/2020	5	20	
2	Site Preparation	Site Preparation	8/3/2020	8/28/2020	5	20	
3	Grading	Grading	8/31/2020	11/6/2020	5	50	
4	Building Construction	Building Construction	11/9/2020	6/9/2023	5	675	
5	Paving	Paving	6/12/2023	7/7/2023	5	20	
6	Architectural Coating	Architectural Coating	6/12/2023	7/7/2023	5	20	

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

**Acres of Grading (Grading Phase): 50**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 675,825; Non-Residential Outdoor: 225,275 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	174.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	674.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	24.00	0.00	1,938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	134.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2020

#### 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					0.0188	0.0000	0.0188	2.8500e-003	0.0000	2.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.3102	0.2961	4.0000e-004		0.0149	0.0149		0.0139	0.0139	0.0000	34.9914	34.9914	9.9200e-003	0.0000	35.1997
<b>Total</b>	<b>0.0310</b>	<b>0.3102</b>	<b>0.2961</b>	<b>4.0000e-004</b>	<b>0.0188</b>	<b>0.0149</b>	<b>0.0337</b>	<b>2.8500e-003</b>	<b>0.0139</b>	<b>0.0167</b>	<b>0.0000</b>	<b>34.9914</b>	<b>34.9914</b>	<b>9.9200e-003</b>	<b>0.0000</b>	<b>35.1997</b>

**3.2 Demolition - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4100e-003	0.0183	0.0179	6.0000e-005	1.4900e-003	3.3000e-004	1.8200e-003	4.1000e-004	3.0000e-004	7.1000e-004	0.0000	5.5001	5.5001	4.0000e-005	0.0000	5.5011
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	4.8000e-004	7.1000e-004	7.4200e-003	2.0000e-005	1.7500e-003	2.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4629	1.4629	7.0000e-005	0.0000	1.4644
<b>Total</b>	<b>1.8900e-003</b>	<b>0.0190</b>	<b>0.0253</b>	<b>8.0000e-005</b>	<b>3.2400e-003</b>	<b>3.5000e-004</b>	<b>3.5900e-003</b>	<b>8.8000e-004</b>	<b>3.1000e-004</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>6.9630</b>	<b>6.9630</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>6.9655</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					7.3500e-003	0.0000	7.3500e-003	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.3102	0.2961	4.0000e-004		0.0149	0.0149		0.0139	0.0139	0.0000	34.9914	34.9914	9.9200e-003	0.0000	35.1997
<b>Total</b>	<b>0.0310</b>	<b>0.3102</b>	<b>0.2961</b>	<b>4.0000e-004</b>	<b>7.3500e-003</b>	<b>0.0149</b>	<b>0.0223</b>	<b>1.1100e-003</b>	<b>0.0139</b>	<b>0.0150</b>	<b>0.0000</b>	<b>34.9914</b>	<b>34.9914</b>	<b>9.9200e-003</b>	<b>0.0000</b>	<b>35.1997</b>

**3.2 Demolition - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4100e-003	0.0183	0.0179	6.0000e-005	1.4900e-003	3.3000e-004	1.8200e-003	4.1000e-004	3.0000e-004	7.1000e-004	0.0000	5.5001	5.5001	4.0000e-005	0.0000	5.5011
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	4.8000e-004	7.1000e-004	7.4200e-003	2.0000e-005	1.7500e-003	2.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4629	1.4629	7.0000e-005	0.0000	1.4644
<b>Total</b>	<b>1.8900e-003</b>	<b>0.0190</b>	<b>0.0253</b>	<b>8.0000e-005</b>	<b>3.2400e-003</b>	<b>3.5000e-004</b>	<b>3.5900e-003</b>	<b>8.8000e-004</b>	<b>3.1000e-004</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>6.9630</b>	<b>6.9630</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>6.9655</b>

**3.3 Site Preparation - 2020****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					0.1810	0.0000	0.1810	0.0994	0.0000	0.0994	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.3886	0.3293	3.9000e-004		0.0193	0.0193		0.0178	0.0178	0.0000	34.4030	34.4030	0.0111	0.0000	34.6367
<b>Total</b>	<b>0.0373</b>	<b>0.3886</b>	<b>0.3293</b>	<b>3.9000e-004</b>	<b>0.1810</b>	<b>0.0193</b>	<b>0.2003</b>	<b>0.0994</b>	<b>0.0178</b>	<b>0.1171</b>	<b>0.0000</b>	<b>34.4030</b>	<b>34.4030</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6367</b>



### 3.3 Site Preparation - 2020

#### 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	5.4800e-003	0.0709	0.0694	2.5000e-004	5.7700e-003	1.2700e-003	7.0400e-003	1.5800e-003	1.1700e-003	2.7500e-003	0.0000	21.3051	21.3051	1.7000e-004	0.0000	21.3087
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	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	1.6458	8.0000e-005	0.0000	1.6475
<b>Total</b>	<b>6.0200e-003</b>	<b>0.0717</b>	<b>0.0778</b>	<b>2.7000e-004</b>	<b>7.7400e-003</b>	<b>1.2900e-003</b>	<b>9.0300e-003</b>	<b>2.1000e-003</b>	<b>1.1900e-003</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>22.9509</b>	<b>22.9509</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>22.9562</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					0.0706	0.0000	0.0706	0.0388	0.0000	0.0388	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.3886	0.3293	3.9000e-004		0.0193	0.0193		0.0178	0.0178	0.0000	34.4030	34.4030	0.0111	0.0000	34.6366
<b>Total</b>	<b>0.0373</b>	<b>0.3886</b>	<b>0.3293</b>	<b>3.9000e-004</b>	<b>0.0706</b>	<b>0.0193</b>	<b>0.0899</b>	<b>0.0388</b>	<b>0.0178</b>	<b>0.0565</b>	<b>0.0000</b>	<b>34.4030</b>	<b>34.4030</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6366</b>

**3.3 Site Preparation - 2020****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	5.4800e-003	0.0709	0.0694	2.5000e-004	5.7700e-003	1.2700e-003	7.0400e-003	1.5800e-003	1.1700e-003	2.7500e-003	0.0000	21.3051	21.3051	1.7000e-004	0.0000	21.3087
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	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	1.6458	8.0000e-005	0.0000	1.6475
<b>Total</b>	<b>6.0200e-003</b>	<b>0.0717</b>	<b>0.0778</b>	<b>2.7000e-004</b>	<b>7.7400e-003</b>	<b>1.2900e-003</b>	<b>9.0300e-003</b>	<b>2.1000e-003</b>	<b>1.1900e-003</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>22.9509</b>	<b>22.9509</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>22.9562</b>

**3.4 Grading - 2020****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					0.3285	0.0000	0.3285	0.1685	0.0000	0.1685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1120	1.1369	0.9631	1.2500e-003		0.0587	0.0587		0.0540	0.0540	0.0000	110.1541	110.1541	0.0356	0.0000	110.9023
<b>Total</b>	<b>0.1120</b>	<b>1.1369</b>	<b>0.9631</b>	<b>1.2500e-003</b>	<b>0.3285</b>	<b>0.0587</b>	<b>0.3872</b>	<b>0.1685</b>	<b>0.0540</b>	<b>0.2225</b>	<b>0.0000</b>	<b>110.1541</b>	<b>110.1541</b>	<b>0.0356</b>	<b>0.0000</b>	<b>110.9023</b>

### 3.4 Grading - 2020

#### 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	0.0157	0.2039	0.1996	7.2000e-004	0.0166	3.6500e-003	0.0202	4.5500e-003	3.3600e-003	7.9100e-003	0.0000	61.2601	61.2601	4.9000e-004	0.0000	61.2703
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	2.6700e-003	0.0278	8.0000e-005	6.5700e-003	6.0000e-005	6.6300e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	5.4858	5.4858	2.8000e-004	0.0000	5.4917
<b>Total</b>	<b>0.0176</b>	<b>0.2066</b>	<b>0.2274</b>	<b>8.0000e-004</b>	<b>0.0232</b>	<b>3.7100e-003</b>	<b>0.0269</b>	<b>6.3000e-003</b>	<b>3.4100e-003</b>	<b>9.7100e-003</b>	<b>0.0000</b>	<b>66.7459</b>	<b>66.7459</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>66.7619</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					0.1281	0.0000	0.1281	0.0657	0.0000	0.0657	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1120	1.1369	0.9631	1.2500e-003		0.0587	0.0587		0.0540	0.0540	0.0000	110.1540	110.1540	0.0356	0.0000	110.9021
<b>Total</b>	<b>0.1120</b>	<b>1.1369</b>	<b>0.9631</b>	<b>1.2500e-003</b>	<b>0.1281</b>	<b>0.0587</b>	<b>0.1868</b>	<b>0.0657</b>	<b>0.0540</b>	<b>0.1197</b>	<b>0.0000</b>	<b>110.1540</b>	<b>110.1540</b>	<b>0.0356</b>	<b>0.0000</b>	<b>110.9021</b>

### 3.4 Grading - 2020

#### 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	0.0157	0.2039	0.1996	7.2000e-004	0.0166	3.6500e-003	0.0202	4.5500e-003	3.3600e-003	7.9100e-003	0.0000	61.2601	61.2601	4.9000e-004	0.0000	61.2703
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	2.6700e-003	0.0278	8.0000e-005	6.5700e-003	6.0000e-005	6.6300e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	5.4858	5.4858	2.8000e-004	0.0000	5.4917
<b>Total</b>	<b>0.0176</b>	<b>0.2066</b>	<b>0.2274</b>	<b>8.0000e-004</b>	<b>0.0232</b>	<b>3.7100e-003</b>	<b>0.0269</b>	<b>6.3000e-003</b>	<b>3.4100e-003</b>	<b>9.7100e-003</b>	<b>0.0000</b>	<b>66.7459</b>	<b>66.7459</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>66.7619</b>

### 3.5 Building Construction - 2020

#### 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	0.0412	0.3721	0.3278	5.2000e-004		0.0217	0.0217		0.0204	0.0204	0.0000	44.9767	44.9767	0.0110	0.0000	45.2069
<b>Total</b>	<b>0.0412</b>	<b>0.3721</b>	<b>0.3278</b>	<b>5.2000e-004</b>		<b>0.0217</b>	<b>0.0217</b>		<b>0.0204</b>	<b>0.0204</b>	<b>0.0000</b>	<b>44.9767</b>	<b>44.9767</b>	<b>0.0110</b>	<b>0.0000</b>	<b>45.2069</b>

### 3.5 Building Construction - 2020

#### 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	0.0000
Vendor	8.1600e-003	0.0723	0.1188	2.5000e-004	7.1800e-003	1.1700e-003	8.3500e-003	2.0500e-003	1.0800e-003	3.1300e-003	0.0000	21.5873	21.5873	1.6000e-004	0.0000	21.5907	
Worker	7.8800e-003	0.0116	0.1212	3.6000e-004	0.0286	2.5000e-004	0.0289	7.6100e-003	2.3000e-004	7.8300e-003	0.0000	23.8909	23.8909	1.2100e-003	0.0000	23.9162	
<b>Total</b>	<b>0.0160</b>	<b>0.0839</b>	<b>0.2400</b>	<b>6.1000e-004</b>	<b>0.0358</b>	<b>1.4200e-003</b>	<b>0.0372</b>	<b>9.6600e-003</b>	<b>1.3100e-003</b>	<b>0.0110</b>	<b>0.0000</b>	<b>45.4782</b>	<b>45.4782</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>45.5069</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	0.0412	0.3721	0.3278	5.2000e-004		0.0217	0.0217		0.0204	0.0204	0.0000	44.9767	44.9767	0.0110	0.0000	45.2068
<b>Total</b>	<b>0.0412</b>	<b>0.3721</b>	<b>0.3278</b>	<b>5.2000e-004</b>		<b>0.0217</b>	<b>0.0217</b>		<b>0.0204</b>	<b>0.0204</b>	<b>0.0000</b>	<b>44.9767</b>	<b>44.9767</b>	<b>0.0110</b>	<b>0.0000</b>	<b>45.2068</b>

### 3.5 Building Construction - 2020

#### 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	8.1600e-003	0.0723	0.1188	2.5000e-004	7.1800e-003	1.1700e-003	8.3500e-003	2.0500e-003	1.0800e-003	3.1300e-003	0.0000	21.5873	21.5873	1.6000e-004	0.0000	21.5907
Worker	7.8800e-003	0.0116	0.1212	3.6000e-004	0.0286	2.5000e-004	0.0289	7.6100e-003	2.3000e-004	7.8300e-003	0.0000	23.8909	23.8909	1.2100e-003	0.0000	23.9162
<b>Total</b>	<b>0.0160</b>	<b>0.0839</b>	<b>0.2400</b>	<b>6.1000e-004</b>	<b>0.0358</b>	<b>1.4200e-003</b>	<b>0.0372</b>	<b>9.6600e-003</b>	<b>1.3100e-003</b>	<b>0.0110</b>	<b>0.0000</b>	<b>45.4782</b>	<b>45.4782</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>45.5069</b>

### 3.5 Building Construction - 2021

#### 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	0.2471	2.2629	2.1582	3.5000e-003		0.1246	0.1246		0.1172	0.1172	0.0000	301.0339	301.0339	0.0725	0.0000	302.5568
<b>Total</b>	<b>0.2471</b>	<b>2.2629</b>	<b>2.1582</b>	<b>3.5000e-003</b>		<b>0.1246</b>	<b>0.1246</b>		<b>0.1172</b>	<b>0.1172</b>	<b>0.0000</b>	<b>301.0339</b>	<b>301.0339</b>	<b>0.0725</b>	<b>0.0000</b>	<b>302.5568</b>

### 3.5 Building Construction - 2021

#### 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	0.0527	0.4113	0.7741	1.7000e-003	0.0481	7.1300e-003	0.0552	0.0137	6.5600e-003	0.0203	0.0000	144.3581	144.3581	1.0800e-003	0.0000	144.3808
Worker	0.0498	0.0727	0.7613	2.4300e-003	0.1916	1.6500e-003	0.1933	0.0509	1.5300e-003	0.0524	0.0000	157.3771	157.3771	7.7200e-003	0.0000	157.5392
<b>Total</b>	<b>0.1025</b>	<b>0.4840</b>	<b>1.5354</b>	<b>4.1300e-003</b>	<b>0.2397</b>	<b>8.7800e-003</b>	<b>0.2485</b>	<b>0.0646</b>	<b>8.0900e-003</b>	<b>0.0727</b>	<b>0.0000</b>	<b>301.7352</b>	<b>301.7352</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>301.9200</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	0.2471	2.2629	2.1582	3.5000e-003		0.1246	0.1246		0.1172	0.1172	0.0000	301.0335	301.0335	0.0725	0.0000	302.5565
<b>Total</b>	<b>0.2471</b>	<b>2.2629</b>	<b>2.1582</b>	<b>3.5000e-003</b>		<b>0.1246</b>	<b>0.1246</b>		<b>0.1172</b>	<b>0.1172</b>	<b>0.0000</b>	<b>301.0335</b>	<b>301.0335</b>	<b>0.0725</b>	<b>0.0000</b>	<b>302.5565</b>

### 3.5 Building Construction - 2021

#### 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	0.0527	0.4113	0.7741	1.7000e-003	0.0481	7.1300e-003	0.0552	0.0137	6.5600e-003	0.0203	0.0000	144.3581	144.3581	1.0800e-003	0.0000	144.3808
Worker	0.0498	0.0727	0.7613	2.4300e-003	0.1916	1.6500e-003	0.1933	0.0509	1.5300e-003	0.0524	0.0000	157.3771	157.3771	7.7200e-003	0.0000	157.5392
<b>Total</b>	<b>0.1025</b>	<b>0.4840</b>	<b>1.5354</b>	<b>4.1300e-003</b>	<b>0.2397</b>	<b>8.7800e-003</b>	<b>0.2485</b>	<b>0.0646</b>	<b>8.0900e-003</b>	<b>0.0727</b>	<b>0.0000</b>	<b>301.7352</b>	<b>301.7352</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>301.9200</b>

### 3.5 Building Construction - 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					
Off-Road	0.2209	2.0197	2.1226	3.4900e-003		0.1047	0.1047		0.0986	0.0986	0.0000	299.9946	299.9946	0.0718	0.0000	301.5017
<b>Total</b>	<b>0.2209</b>	<b>2.0197</b>	<b>2.1226</b>	<b>3.4900e-003</b>		<b>0.1047</b>	<b>0.1047</b>		<b>0.0986</b>	<b>0.0986</b>	<b>0.0000</b>	<b>299.9946</b>	<b>299.9946</b>	<b>0.0718</b>	<b>0.0000</b>	<b>301.5017</b>



### 3.5 Building Construction - 2022

#### 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	0.0000
Vendor	0.0513	0.3720	0.7512	1.6900e-003	0.0479	7.0300e-003	0.0549	0.0137	6.4700e-003	0.0201	0.0000	143.6866	143.6866	1.1000e-003	0.0000	143.7097	
Worker	0.0469	0.0678	0.7116	2.4200e-003	0.1909	1.6400e-003	0.1925	0.0507	1.5200e-003	0.0522	0.0000	154.1623	154.1623	7.3600e-003	0.0000	154.3169	
<b>Total</b>	<b>0.0982</b>	<b>0.4398</b>	<b>1.4628</b>	<b>4.1100e-003</b>	<b>0.2388</b>	<b>8.6700e-003</b>	<b>0.2474</b>	<b>0.0644</b>	<b>7.9900e-003</b>	<b>0.0724</b>	<b>0.0000</b>	<b>297.8490</b>	<b>297.8490</b>	<b>8.4600e-003</b>	<b>0.0000</b>	<b>298.0266</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	0.2209	2.0197	2.1226	3.4900e-003		0.1047	0.1047		0.0986	0.0986	0.0000	299.9943	299.9943	0.0718	0.0000	301.5013
<b>Total</b>	<b>0.2209</b>	<b>2.0197</b>	<b>2.1226</b>	<b>3.4900e-003</b>		<b>0.1047</b>	<b>0.1047</b>		<b>0.0986</b>	<b>0.0986</b>	<b>0.0000</b>	<b>299.9943</b>	<b>299.9943</b>	<b>0.0718</b>	<b>0.0000</b>	<b>301.5013</b>

### 3.5 Building Construction - 2022

#### 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	0.0513	0.3720	0.7512	1.6900e-003	0.0479	7.0300e-003	0.0549	0.0137	6.4700e-003	0.0201	0.0000	143.6866	143.6866	1.1000e-003	0.0000	143.7097
Worker	0.0469	0.0678	0.7116	2.4200e-003	0.1909	1.6400e-003	0.1925	0.0507	1.5200e-003	0.0522	0.0000	154.1623	154.1623	7.3600e-003	0.0000	154.3169
<b>Total</b>	<b>0.0982</b>	<b>0.4398</b>	<b>1.4628</b>	<b>4.1100e-003</b>	<b>0.2388</b>	<b>8.6700e-003</b>	<b>0.2474</b>	<b>0.0644</b>	<b>7.9900e-003</b>	<b>0.0724</b>	<b>0.0000</b>	<b>297.8490</b>	<b>297.8490</b>	<b>8.4600e-003</b>	<b>0.0000</b>	<b>298.0266</b>

### 3.5 Building Construction - 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					
Off-Road	0.0901	0.8230	0.9320	1.5400e-003		0.0401	0.0401		0.0377	0.0377	0.0000	132.7357	132.7357	0.0315	0.0000	133.3978
<b>Total</b>	<b>0.0901</b>	<b>0.8230</b>	<b>0.9320</b>	<b>1.5400e-003</b>		<b>0.0401</b>	<b>0.0401</b>		<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>132.7357</b>	<b>132.7357</b>	<b>0.0315</b>	<b>0.0000</b>	<b>133.3978</b>

### 3.5 Building Construction - 2023

#### 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	0.0210	0.1308	0.3199	7.5000e-004	0.0212	3.0700e-003	0.0243	6.0400e-003	2.8200e-003	8.8700e-003	0.0000	63.2536	63.2536	4.4000e-004	0.0000	63.2628
Worker	0.0196	0.0281	0.2957	1.0700e-003	0.0844	7.2000e-004	0.0852	0.0224	6.7000e-004	0.0231	0.0000	67.1259	67.1259	3.1200e-003	0.0000	67.1915
<b>Total</b>	<b>0.0407</b>	<b>0.1589</b>	<b>0.6156</b>	<b>1.8200e-003</b>	<b>0.1056</b>	<b>3.7900e-003</b>	<b>0.1094</b>	<b>0.0285</b>	<b>3.4900e-003</b>	<b>0.0320</b>	<b>0.0000</b>	<b>130.3795</b>	<b>130.3795</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>130.4543</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	0.0901	0.8230	0.9320	1.5400e-003		0.0401	0.0401		0.0377	0.0377	0.0000	132.7355	132.7355	0.0315	0.0000	133.3976
<b>Total</b>	<b>0.0901</b>	<b>0.8230</b>	<b>0.9320</b>	<b>1.5400e-003</b>		<b>0.0401</b>	<b>0.0401</b>		<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>132.7355</b>	<b>132.7355</b>	<b>0.0315</b>	<b>0.0000</b>	<b>133.3976</b>

### 3.5 Building Construction - 2023

#### 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	0.0210	0.1308	0.3199	7.5000e-004	0.0212	3.0700e-003	0.0243	6.0400e-003	2.8200e-003	8.8700e-003	0.0000	63.2536	63.2536	4.4000e-004	0.0000	63.2628
Worker	0.0196	0.0281	0.2957	1.0700e-003	0.0844	7.2000e-004	0.0852	0.0224	6.7000e-004	0.0231	0.0000	67.1259	67.1259	3.1200e-003	0.0000	67.1915
<b>Total</b>	<b>0.0407</b>	<b>0.1589</b>	<b>0.6156</b>	<b>1.8200e-003</b>	<b>0.1056</b>	<b>3.7900e-003</b>	<b>0.1094</b>	<b>0.0285</b>	<b>3.4900e-003</b>	<b>0.0320</b>	<b>0.0000</b>	<b>130.3795</b>	<b>130.3795</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>130.4543</b>

### 3.6 Paving - 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					
Off-Road	0.0101	0.1000	0.1429	2.2000e-004		5.0100e-003	5.0100e-003		4.6100e-003	4.6100e-003	0.0000	19.6008	19.6008	6.3400e-003	0.0000	19.7339
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>0.0101</b>	<b>0.1000</b>	<b>0.1429</b>	<b>2.2000e-004</b>		<b>5.0100e-003</b>	<b>5.0100e-003</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>19.6008</b>	<b>19.6008</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>19.7339</b>

### 3.6 Paving - 2023

#### 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	4.1000e-004	5.8000e-004	6.1400e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3939	1.3939	6.0000e-005	0.0000	1.3953
<b>Total</b>	<b>4.1000e-004</b>	<b>5.8000e-004</b>	<b>6.1400e-003</b>	<b>2.0000e-005</b>	<b>1.7500e-003</b>	<b>1.0000e-005</b>	<b>1.7700e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.3939</b>	<b>1.3939</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3953</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	0.0101	0.1000	0.1429	2.2000e-004		5.0100e-003	5.0100e-003		4.6100e-003	4.6100e-003	0.0000	19.6007	19.6007	6.3400e-003	0.0000	19.7339
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>0.0101</b>	<b>0.1000</b>	<b>0.1429</b>	<b>2.2000e-004</b>		<b>5.0100e-003</b>	<b>5.0100e-003</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>19.6007</b>	<b>19.6007</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>19.7339</b>

### 3.6 Paving - 2023

#### 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	4.1000e-004	5.8000e-004	6.1400e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3939	1.3939	6.0000e-005	0.0000	1.3953
<b>Total</b>	<b>4.1000e-004</b>	<b>5.8000e-004</b>	<b>6.1400e-003</b>	<b>2.0000e-005</b>	<b>1.7500e-003</b>	<b>1.0000e-005</b>	<b>1.7700e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.3939</b>	<b>1.3939</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3953</b>

### 3.7 Architectural Coating - 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					
Archit. Coating	5.2208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5565
<b>Total</b>	<b>5.2227</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5565</b>

### 3.7 Architectural Coating - 2023

#### 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	7.1000e-004	1.0200e-003	0.0107	4.0000e-005	3.0700e-003	3.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.4394	2.4394	1.1000e-004	0.0000	2.4417
<b>Total</b>	<b>7.1000e-004</b>	<b>1.0200e-003</b>	<b>0.0107</b>	<b>4.0000e-005</b>	<b>3.0700e-003</b>	<b>3.0000e-005</b>	<b>3.0900e-003</b>	<b>8.1000e-004</b>	<b>2.0000e-005</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>2.4394</b>	<b>2.4394</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.4417</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	5.2208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5565
<b>Total</b>	<b>5.2227</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5565</b>





# **Construction Emissions Modeling Mitigated**

## AMC Construction - Super Compliant Coatings

### Los Angeles-South Coast County, Winter

### 1.0 Project Characteristics

---

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	262.55	1000sqft	5.21	262,550.00	0
Other Non-Asphalt Surfaces	188.00	1000sqft	4.32	188,000.00	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>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Construction only.

Land Use - Total site acreage = 9.53 acres.

Construction Phase - Project schedule from Metro.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Round trips accounted for.

Demolition -

Grading - During site preparation, approximately 280,460 square feet of asphalt surface and 26,000 square feet of concrete surface will be removed.

Architectural Coating - Super Compliant Coating mitigation.

Vehicle Trips - Construction Only.

Area Coating - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Comply with SCAQMD Rule 403 for Fugitive Dust Control.

Area Mitigation - SCC

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	225275	0
tblAreaCoating	Area_Nonresidential_Interior	675825	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	10

tblConstructionPhase	NumDays	230.00	675.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/4/2023	7/7/2023
tblConstructionPhase	PhaseStartDate	7/8/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	11/7/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	8/29/2020	8/31/2020
tblConstructionPhase	PhaseStartDate	6/10/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	8/1/2020	8/3/2020
tblEnergyUse	LightingElect	4.25	0.00
tblEnergyUse	NT24E	4.79	0.00
tblEnergyUse	NT24NG	0.19	0.00
tblEnergyUse	T24E	6.86	0.00
tblEnergyUse	T24NG	10.10	0.00
tblGrading	MaterialExported	0.00	15,500.00
tblGrading	MaterialExported	0.00	6,810.25
tblLandUse	LotAcreage	6.03	5.21
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024
tblSolidWaste	SolidWasteGenerationRate	244.17	0.00
tblTripsAndVMT	HaulingTripNumber	673.00	674.00
tblTripsAndVMT	VendorTripNumber	74.00	60.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblTripsAndVMT	WorkerTripNumber	163.00	134.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00

tblTripsAndVMT	WorkerTripNumber	33.00	28.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblWater	IndoorWaterUseRate	46,663,995.54	0.00
tblWater	OutdoorWaterUseRate	28,600,513.39	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.1981	53.5936	47.8678	0.0821	18.8852	2.4960	20.9447	10.1495	2.2963	12.0443	0.0000	7,792.4068	7,792.4068	1.6046	0.0000	7,826.1040
2021	2.7159	20.9745	28.4630	0.0581	1.8723	1.0224	2.8948	0.5038	0.9601	1.4639	0.0000	5,064.3475	5,064.3475	0.6871	0.0000	5,078.7772
2022	2.4906	18.8514	27.7455	0.0581	1.8723	0.8726	2.7450	0.5038	0.8198	1.3236	0.0000	5,042.4947	5,042.4947	0.6805	0.0000	5,056.7843
2023	22.2070	17.0192	27.0837	0.0581	1.8724	0.7629	2.6352	0.5038	0.7166	1.2204	0.0000	5,017.5659	5,017.5659	0.7353	0.0000	5,033.0071
<b>Total</b>	<b>32.6116</b>	<b>110.4388</b>	<b>131.1601</b>	<b>0.2564</b>	<b>24.5022</b>	<b>5.1539</b>	<b>29.2197</b>	<b>11.6609</b>	<b>4.7927</b>	<b>16.0522</b>	<b>0.0000</b>	<b>22,916.8149</b>	<b>22,916.8149</b>	<b>3.7075</b>	<b>0.0000</b>	<b>22,994.6725</b>



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/6/2020	7/31/2020	5	20	
2	Site Preparation	Site Preparation	8/3/2020	8/28/2020	5	20	
3	Grading	Grading	8/31/2020	11/6/2020	5	50	
4	Building Construction	Building Construction	11/9/2020	6/9/2023	5	675	
5	Paving	Paving	6/12/2023	7/7/2023	5	20	
6	Architectural Coating	Architectural Coating	6/12/2023	7/7/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 675,825; Non-Residential Outdoor: 225,275 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**



Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	174.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	674.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	24.00	0.00	1,938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	134.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8841	0.0000	1.8841	0.2853	0.0000	0.2853			0.0000			0.0000
Off-Road	3.0964	31.0154	29.6099	0.0400		1.4899	1.4899		1.3865	1.3865		3,857.1420	3,857.1420	1.0933		3,880.1021
<b>Total</b>	<b>3.0964</b>	<b>31.0154</b>	<b>29.6099</b>	<b>0.0400</b>	<b>1.8841</b>	<b>1.4899</b>	<b>3.3739</b>	<b>0.2853</b>	<b>1.3865</b>	<b>1.6718</b>		<b>3,857.1420</b>	<b>3,857.1420</b>	<b>1.0933</b>		<b>3,880.1021</b>

### 3.2 Demolition - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1435	1.7988	1.8533	6.4400e-003	0.1516	0.0328	0.1844	0.0415	0.0302	0.0717		605.4543	605.4543	4.8400e-003		605.5560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0514	0.0694	0.7248	2.1800e-003	0.1788	1.5100e-003	0.1804	0.0474	1.4000e-003	0.0488		158.6922	158.6922	8.1400e-003		158.8632
<b>Total</b>	<b>0.1949</b>	<b>1.8682</b>	<b>2.5780</b>	<b>8.6200e-003</b>	<b>0.3304</b>	<b>0.0343</b>	<b>0.3648</b>	<b>0.0890</b>	<b>0.0316</b>	<b>0.1205</b>		<b>764.1465</b>	<b>764.1465</b>	<b>0.0130</b>		<b>764.4192</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7348	0.0000	0.7348	0.1113	0.0000	0.1113			0.0000			0.0000
Off-Road	3.0964	31.0154	29.6099	0.0400		1.4899	1.4899		1.3865	1.3865	0.0000	3,857.1420	3,857.1420	1.0933		3,880.1021
<b>Total</b>	<b>3.0964</b>	<b>31.0154</b>	<b>29.6099</b>	<b>0.0400</b>	<b>0.7348</b>	<b>1.4899</b>	<b>2.2247</b>	<b>0.1113</b>	<b>1.3865</b>	<b>1.4978</b>	<b>0.0000</b>	<b>3,857.1420</b>	<b>3,857.1420</b>	<b>1.0933</b>		<b>3,880.1021</b>

### 3.2 Demolition - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.1435	1.7988	1.8533	6.4400e-003	0.1516	0.0328	0.1844	0.0415	0.0302	0.0717		605.4543	605.4543	4.8400e-003			605.5560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0514	0.0694	0.7248	2.1800e-003	0.1788	1.5100e-003	0.1804	0.0474	1.4000e-003	0.0488		158.6922	158.6922	8.1400e-003			158.8632
<b>Total</b>	<b>0.1949</b>	<b>1.8682</b>	<b>2.5780</b>	<b>8.6200e-003</b>	<b>0.3304</b>	<b>0.0343</b>	<b>0.3648</b>	<b>0.0890</b>	<b>0.0316</b>	<b>0.1205</b>		<b>764.1465</b>	<b>764.1465</b>	<b>0.0130</b>			<b>764.4192</b>

### 3.3 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0967	0.0000	18.0967	9.9353	0.0000	9.9353			0.0000				0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764		3,792.2816	3,792.2816	1.2265			3,818.0381
<b>Total</b>	<b>3.7250</b>	<b>38.8640</b>	<b>32.9264</b>	<b>0.0391</b>	<b>18.0967</b>	<b>1.9309</b>	<b>20.0276</b>	<b>9.9353</b>	<b>1.7764</b>	<b>11.7117</b>		<b>3,792.2816</b>	<b>3,792.2816</b>	<b>1.2265</b>			<b>3,818.0381</b>

### 3.3 Site Preparation - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5559	6.9678	7.1788	0.0250	0.5872	0.1270	0.7142	0.1608	0.1168	0.2776		2,345.2657	2,345.2657	0.0188		2,345.6596
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0578	0.0780	0.8154	2.4600e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		178.5287	178.5287	9.1600e-003		178.7211
<b>Total</b>	<b>0.6137</b>	<b>7.0459</b>	<b>7.9942</b>	<b>0.0274</b>	<b>0.7884</b>	<b>0.1287</b>	<b>0.9171</b>	<b>0.2142</b>	<b>0.1184</b>	<b>0.3326</b>		<b>2,523.7944</b>	<b>2,523.7944</b>	<b>0.0279</b>		<b>2,524.3807</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0577	0.0000	7.0577	3.8748	0.0000	3.8748			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764	0.0000	3,792.2816	3,792.2816	1.2265		3,818.0381
<b>Total</b>	<b>3.7250</b>	<b>38.8640</b>	<b>32.9264</b>	<b>0.0391</b>	<b>7.0577</b>	<b>1.9309</b>	<b>8.9886</b>	<b>3.8748</b>	<b>1.7764</b>	<b>5.6512</b>	<b>0.0000</b>	<b>3,792.2816</b>	<b>3,792.2816</b>	<b>1.2265</b>		<b>3,818.0381</b>

### 3.3 Site Preparation - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5559	6.9678	7.1788	0.0250	0.5872	0.1270	0.7142	0.1608	0.1168	0.2776		2,345.2657	2,345.2657	0.0188		2,345.6596
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0578	0.0780	0.8154	2.4600e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		178.5287	178.5287	9.1600e-003		178.7211
<b>Total</b>	<b>0.6137</b>	<b>7.0459</b>	<b>7.9942</b>	<b>0.0274</b>	<b>0.7884</b>	<b>0.1287</b>	<b>0.9171</b>	<b>0.2142</b>	<b>0.1184</b>	<b>0.3326</b>		<b>2,523.7944</b>	<b>2,523.7944</b>	<b>0.0279</b>		<b>2,524.3807</b>

### 3.4 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.1397	0.0000	13.1397	6.7403	0.0000	6.7403			0.0000			0.0000
Off-Road	4.4816	45.4755	38.5240	0.0501		2.3476	2.3476		2.1598	2.1598		4,856.9650	4,856.9650	1.5708		4,889.9527
<b>Total</b>	<b>4.4816</b>	<b>45.4755</b>	<b>38.5240</b>	<b>0.0501</b>	<b>13.1397</b>	<b>2.3476</b>	<b>15.4874</b>	<b>6.7403</b>	<b>2.1598</b>	<b>8.9001</b>		<b>4,856.9650</b>	<b>4,856.9650</b>	<b>1.5708</b>		<b>4,889.9527</b>

### 3.4 Grading - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6393	8.0140	8.2567	0.0287	0.6754	0.1461	0.8215	0.1850	0.1344	0.3193		2,697.4035	2,697.4035	0.0216		2,697.8566
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0771	0.1041	1.0871	3.2800e-003	0.2683	2.2700e-003	0.2705	0.0711	2.1100e-003	0.0733		238.0383	238.0383	0.0122		238.2947
<b>Total</b>	<b>0.7164</b>	<b>8.1181</b>	<b>9.3438</b>	<b>0.0320</b>	<b>0.9437</b>	<b>0.1483</b>	<b>1.0920</b>	<b>0.2561</b>	<b>0.1365</b>	<b>0.3926</b>		<b>2,935.4418</b>	<b>2,935.4418</b>	<b>0.0338</b>		<b>2,936.1513</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.1245	0.0000	5.1245	2.6287	0.0000	2.6287			0.0000			0.0000
Off-Road	4.4816	45.4755	38.5240	0.0501		2.3476	2.3476		2.1598	2.1598	0.0000	4,856.9650	4,856.9650	1.5708		4,889.9526
<b>Total</b>	<b>4.4816</b>	<b>45.4755</b>	<b>38.5240</b>	<b>0.0501</b>	<b>5.1245</b>	<b>2.3476</b>	<b>7.4721</b>	<b>2.6287</b>	<b>2.1598</b>	<b>4.7885</b>	<b>0.0000</b>	<b>4,856.9650</b>	<b>4,856.9650</b>	<b>1.5708</b>		<b>4,889.9526</b>

### 3.4 Grading - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6393	8.0140	8.2567	0.0287	0.6754	0.1461	0.8215	0.1850	0.1344	0.3193		2,697.4035	2,697.4035	0.0216		2,697.8566
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0771	0.1041	1.0871	3.2800e-003	0.2683	2.2700e-003	0.2705	0.0711	2.1100e-003	0.0733		238.0383	238.0383	0.0122		238.2947
<b>Total</b>	<b>0.7164</b>	<b>8.1181</b>	<b>9.3438</b>	<b>0.0320</b>	<b>0.9437</b>	<b>0.1483</b>	<b>1.0920</b>	<b>0.2561</b>	<b>0.1365</b>	<b>0.3926</b>		<b>2,935.4418</b>	<b>2,935.4418</b>	<b>0.0338</b>		<b>2,936.1513</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194		2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>		<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>		<b>2,555.4880</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4312	3.6348	6.3902	0.0130	0.3745	0.0603	0.4349	0.1066	0.0555	0.1621		1,214.3355	1,214.3355	9.2400e-003			1,214.5296
Worker	0.4305	0.5810	6.0699	0.0183	1.4978	0.0127	1.5105	0.3972	0.0118	0.4090		1,329.0472	1,329.0472	0.0682			1,330.4790
<b>Total</b>	<b>0.8617</b>	<b>4.2158</b>	<b>12.4601</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0730</b>	<b>1.9454</b>	<b>0.5038</b>	<b>0.0673</b>	<b>0.5711</b>		<b>2,543.3827</b>	<b>2,543.3827</b>	<b>0.0774</b>			<b>2,545.0086</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465	0.0000	2,542.4799	2,542.4799	0.6194			2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>	<b>0.0000</b>	<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>			<b>2,555.4880</b>



### 3.5 Building Construction - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4312	3.6348	6.3902	0.0130	0.3745	0.0603	0.4349	0.1066	0.0555	0.1621		1,214.3355	1,214.3355	9.2400e-003		1,214.5296
Worker	0.4305	0.5810	6.0699	0.0183	1.4978	0.0127	1.5105	0.3972	0.0118	0.4090		1,329.0472	1,329.0472	0.0682		1,330.4790
<b>Total</b>	<b>0.8617</b>	<b>4.2158</b>	<b>12.4601</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0730</b>	<b>1.9454</b>	<b>0.5038</b>	<b>0.0673</b>	<b>0.5711</b>		<b>2,543.3827</b>	<b>2,543.3827</b>	<b>0.0774</b>		<b>2,545.0086</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979		2,542.7817	2,542.7817	0.6126		2,555.6462
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>		<b>2,542.7817</b>	<b>2,542.7817</b>	<b>0.6126</b>		<b>2,555.6462</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4158	3.0920	6.2328	0.0130	0.3745	0.0549	0.4294	0.1066	0.0505	0.1571		1,213.3974	1,213.3974	9.3100e-003			1,213.5930
Worker	0.4070	0.5423	5.6926	0.0183	1.4978	0.0126	1.5105	0.3972	0.0117	0.4090		1,308.1684	1,308.1684	0.0652			1,309.5380
<b>Total</b>	<b>0.8228</b>	<b>3.6343</b>	<b>11.9254</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0676</b>	<b>1.9399</b>	<b>0.5038</b>	<b>0.0622</b>	<b>0.5661</b>		<b>2,521.5658</b>	<b>2,521.5658</b>	<b>0.0745</b>			<b>2,523.1310</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979	0.0000	2,542.7817	2,542.7817	0.6126			2,555.6462
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>	<b>0.0000</b>	<b>2,542.7817</b>	<b>2,542.7817</b>	<b>0.6126</b>			<b>2,555.6462</b>

### 3.5 Building Construction - 2021

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4158	3.0920	6.2328	0.0130	0.3745	0.0549	0.4294	0.1066	0.0505	0.1571		1,213.3974	1,213.3974	9.3100e-003			1,213.5930
Worker	0.4070	0.5423	5.6926	0.0183	1.4978	0.0126	1.5105	0.3972	0.0117	0.4090		1,308.1684	1,308.1684	0.0652			1,309.5380
<b>Total</b>	<b>0.8228</b>	<b>3.6343</b>	<b>11.9254</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0676</b>	<b>1.9399</b>	<b>0.5038</b>	<b>0.0622</b>	<b>0.5661</b>		<b>2,521.5658</b>	<b>2,521.5658</b>	<b>0.0745</b>			<b>2,523.1310</b>

### 3.5 Building Construction - 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	lb/day										lb/day						
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581		2,543.7497	2,543.7497	0.6085			2,556.5286
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>		<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>			<b>2,556.5286</b>

### 3.5 Building Construction - 2022

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4064	2.8075	6.0782	0.0130	0.3745	0.0543	0.4288	0.1066	0.0500	0.1566		1,212.3977	1,212.3977	9.5200e-003			1,212.5977
Worker	0.3850	0.5075	5.3397	0.0183	1.4978	0.0126	1.5104	0.3972	0.0117	0.4089		1,286.3473	1,286.3473	0.0624			1,287.6580
<b>Total</b>	<b>0.7914</b>	<b>3.3150</b>	<b>11.4179</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0669</b>	<b>1.9392</b>	<b>0.5038</b>	<b>0.0616</b>	<b>0.5655</b>		<b>2,498.7450</b>	<b>2,498.7450</b>	<b>0.0719</b>			<b>2,500.2556</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581	0.0000	2,543.7497	2,543.7497	0.6085			2,556.5286
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>	<b>0.0000</b>	<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>			<b>2,556.5286</b>

### 3.5 Building Construction - 2022

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.4064	2.8075	6.0782	0.0130	0.3745	0.0543	0.4288	0.1066	0.0500	0.1566		1,212.3977	1,212.3977	9.5200e-003			1,212.5977
Worker	0.3850	0.5075	5.3397	0.0183	1.4978	0.0126	1.5104	0.3972	0.0117	0.4089		1,286.3473	1,286.3473	0.0624			1,287.6580
<b>Total</b>	<b>0.7914</b>	<b>3.3150</b>	<b>11.4179</b>	<b>0.0313</b>	<b>1.8723</b>	<b>0.0669</b>	<b>1.9392</b>	<b>0.5038</b>	<b>0.0616</b>	<b>0.5655</b>		<b>2,498.7450</b>	<b>2,498.7450</b>	<b>0.0719</b>			<b>2,500.2556</b>

### 3.5 Building Construction - 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	lb/day										lb/day						
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557		2,544.6262	2,544.6262	0.6044			2,557.3191
<b>Total</b>	<b>1.5661</b>	<b>14.3126</b>	<b>16.2093</b>	<b>0.0268</b>		<b>0.6967</b>	<b>0.6967</b>		<b>0.6557</b>	<b>0.6557</b>		<b>2,544.6262</b>	<b>2,544.6262</b>	<b>0.6044</b>			<b>2,557.3191</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3777	2.2303	5.8606	0.0129	0.3746	0.0536	0.4282	0.1066	0.0493	0.1559		1,206.6435	1,206.6435	8.5800e-003			1,206.8237
Worker	0.3642	0.4763	5.0139	0.0183	1.4978	0.0125	1.5103	0.3972	0.0116	0.4088		1,266.2962	1,266.2962	0.0599			1,267.5542
<b>Total</b>	<b>0.7419</b>	<b>2.7066</b>	<b>10.8745</b>	<b>0.0312</b>	<b>1.8724</b>	<b>0.0662</b>	<b>1.9385</b>	<b>0.5038</b>	<b>0.0610</b>	<b>0.5648</b>		<b>2,472.9397</b>	<b>2,472.9397</b>	<b>0.0685</b>			<b>2,474.3779</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557	0.0000	2,544.6262	2,544.6262	0.6044			2,557.3191
<b>Total</b>	<b>1.5661</b>	<b>14.3126</b>	<b>16.2093</b>	<b>0.0268</b>		<b>0.6967</b>	<b>0.6967</b>		<b>0.6557</b>	<b>0.6557</b>	<b>0.0000</b>	<b>2,544.6262</b>	<b>2,544.6262</b>	<b>0.6044</b>			<b>2,557.3191</b>

### 3.5 Building Construction - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3777	2.2303	5.8606	0.0129	0.3746	0.0536	0.4282	0.1066	0.0493	0.1559		1,206.6435	1,206.6435	8.5800e-003			1,206.8237
Worker	0.3642	0.4763	5.0139	0.0183	1.4978	0.0125	1.5103	0.3972	0.0116	0.4088		1,266.2962	1,266.2962	0.0599			1,267.5542
<b>Total</b>	<b>0.7419</b>	<b>2.7066</b>	<b>10.8745</b>	<b>0.0312</b>	<b>1.8724</b>	<b>0.0662</b>	<b>1.9385</b>	<b>0.5038</b>	<b>0.0610</b>	<b>0.5648</b>		<b>2,472.9397</b>	<b>2,472.9397</b>	<b>0.0685</b>			<b>2,474.3779</b>

### 3.6 Paving - 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	lb/day										lb/day						
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609		2,160.6139	2,160.6139	0.6988			2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.0128</b>	<b>9.9983</b>	<b>14.2850</b>	<b>0.0223</b>		<b>0.5010</b>	<b>0.5010</b>		<b>0.4609</b>	<b>0.4609</b>		<b>2,160.6139</b>	<b>2,160.6139</b>	<b>0.6988</b>			<b>2,175.2884</b>

### 3.6 Paving - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0435	0.0569	0.5987	2.1900e-003	0.1788	1.5000e-003	0.1803	0.0474	1.3900e-003	0.0488		151.1996	151.1996	7.1500e-003			151.3498
<b>Total</b>	<b>0.0435</b>	<b>0.0569</b>	<b>0.5987</b>	<b>2.1900e-003</b>	<b>0.1788</b>	<b>1.5000e-003</b>	<b>0.1803</b>	<b>0.0474</b>	<b>1.3900e-003</b>	<b>0.0488</b>		<b>151.1996</b>	<b>151.1996</b>	<b>7.1500e-003</b>			<b>151.3498</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609	0.0000	2,160.6139	2,160.6139	0.6988			2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.0128</b>	<b>9.9983</b>	<b>14.2850</b>	<b>0.0223</b>		<b>0.5010</b>	<b>0.5010</b>		<b>0.4609</b>	<b>0.4609</b>	<b>0.0000</b>	<b>2,160.6139</b>	<b>2,160.6139</b>	<b>0.6988</b>			<b>2,175.2884</b>



### 3.6 Paving - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0435	0.0569	0.5987	2.1900e-003	0.1788	1.5000e-003	0.1803	0.0474	1.3900e-003	0.0488		151.1996	151.1996	7.1500e-003		151.3498
<b>Total</b>	<b>0.0435</b>	<b>0.0569</b>	<b>0.5987</b>	<b>2.1900e-003</b>	<b>0.1788</b>	<b>1.5000e-003</b>	<b>0.1803</b>	<b>0.0474</b>	<b>1.3900e-003</b>	<b>0.0488</b>		<b>151.1996</b>	<b>151.1996</b>	<b>7.1500e-003</b>		<b>151.3498</b>

### 3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	20.8830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>21.0747</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</b>

### 3.7 Architectural Coating - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0761	0.0995	1.0477	3.8300e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4300e-003	0.0854		264.5992	264.5992	0.0125			264.8621
<b>Total</b>	<b>0.0761</b>	<b>0.0995</b>	<b>1.0477</b>	<b>3.8300e-003</b>	<b>0.3130</b>	<b>2.6200e-003</b>	<b>0.3156</b>	<b>0.0830</b>	<b>2.4300e-003</b>	<b>0.0854</b>		<b>264.5992</b>	<b>264.5992</b>	<b>0.0125</b>			<b>264.8621</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	20.8830					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>21.0747</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</b>

### 3.7 Architectural Coating - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0761	0.0995	1.0477	3.8300e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4300e-003	0.0854		264.5992	264.5992	0.0125			264.8621
<b>Total</b>	<b>0.0761</b>	<b>0.0995</b>	<b>1.0477</b>	<b>3.8300e-003</b>	<b>0.3130</b>	<b>2.6200e-003</b>	<b>0.3156</b>	<b>0.0830</b>	<b>2.4300e-003</b>	<b>0.0854</b>		<b>264.5992</b>	<b>264.5992</b>	<b>0.0125</b>			<b>264.8621</b>

### 4.0 Operational Detail - Mobile

---

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000

## AMC Construction - Super Compliant Coatings

### Los Angeles-South Coast County, Summer

### 1.0 Project Characteristics

---

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	262.55	1000sqft	5.21	262,550.00	0
Other Non-Asphalt Surfaces	188.00	1000sqft	4.32	188,000.00	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>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Construction only.

Land Use - Total site acreage = 9.53 acres.

Construction Phase - Project schedule from Metro.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Round trips accounted for.

Demolition -

Grading - During site preparation, approximately 280,460 square feet of asphalt surface and 26,000 square feet of concrete surface will be removed.

Architectural Coating - Super Compliant Coating mitigation.

Vehicle Trips - Construction Only.

Area Coating - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Comply with SCAQMD Rule 403 for Fugitive Dust Control.

Area Mitigation - SCC

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	225275	0
tblAreaCoating	Area_Nonresidential_Interior	675825	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	10

tblConstructionPhase	NumDays	230.00	675.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/4/2023	7/7/2023
tblConstructionPhase	PhaseStartDate	7/8/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	11/7/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	8/29/2020	8/31/2020
tblConstructionPhase	PhaseStartDate	6/10/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	8/1/2020	8/3/2020
tblEnergyUse	LightingElect	4.25	0.00
tblEnergyUse	NT24E	4.79	0.00
tblEnergyUse	NT24NG	0.19	0.00
tblEnergyUse	T24E	6.86	0.00
tblEnergyUse	T24NG	10.10	0.00
tblGrading	MaterialExported	0.00	15,500.00
tblGrading	MaterialExported	0.00	6,810.25
tblLandUse	LotAcreage	6.03	5.21
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024
tblSolidWaste	SolidWasteGenerationRate	244.17	0.00
tblTripsAndVMT	HaulingTripNumber	673.00	674.00
tblTripsAndVMT	VendorTripNumber	74.00	60.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblTripsAndVMT	WorkerTripNumber	163.00	134.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00

tblTripsAndVMT	WorkerTripNumber	33.00	28.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblWater	IndoorWaterUseRate	46,663,995.54	0.00
tblWater	OutdoorWaterUseRate	28,600,513.39	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.1671	53.3136	46.7196	0.0823	18.8852	2.4956	20.9444	10.1495	2.2960	12.0440	0.0000	7,813.022 1	7,813.022 1	1.6043	0.0000	7,846.712 9
2021	2.6688	20.8522	27.6587	0.0593	1.8723	1.0220	2.8943	0.5038	0.9597	1.4635	0.0000	5,152.964 3	5,152.964 3	0.6868	0.0000	5,167.387 3
2022	2.4459	18.7389	26.9538	0.0593	1.8723	0.8722	2.7445	0.5038	0.8194	1.3232	0.0000	5,129.903 3	5,129.903 3	0.6801	0.0000	5,144.185 9
2023	22.2030	16.9314	26.2989	0.0593	1.8724	0.7624	2.6348	0.5038	0.7162	1.2200	0.0000	5,103.885 8	5,103.885 8	0.7353	0.0000	5,119.327 0
<b>Total</b>	<b>32.4847</b>	<b>109.8362</b>	<b>127.6310</b>	<b>0.2602</b>	<b>24.5022</b>	<b>5.1523</b>	<b>29.2181</b>	<b>11.6609</b>	<b>4.7913</b>	<b>16.0507</b>	<b>0.0000</b>	<b>23,199.77 54</b>	<b>23,199.77 54</b>	<b>3.7066</b>	<b>0.0000</b>	<b>23,277.61 30</b>





	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/6/2020	7/31/2020	5	20	
2	Site Preparation	Site Preparation	8/3/2020	8/28/2020	5	20	
3	Grading	Grading	8/31/2020	11/6/2020	5	50	
4	Building Construction	Building Construction	11/9/2020	6/9/2023	5	675	
5	Paving	Paving	6/12/2023	7/7/2023	5	20	
6	Architectural Coating	Architectural Coating	6/12/2023	7/7/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 675,825; Non-Residential Outdoor: 225,275 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	174.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	674.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	24.00	0.00	1,938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	134.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8841	0.0000	1.8841	0.2853	0.0000	0.2853			0.0000			0.0000
Off-Road	3.0964	31.0154	29.6099	0.0400		1.4899	1.4899		1.3865	1.3865		3,857.1420	3,857.1420	1.0933		3,880.1021
<b>Total</b>	<b>3.0964</b>	<b>31.0154</b>	<b>29.6099</b>	<b>0.0400</b>	<b>1.8841</b>	<b>1.4899</b>	<b>3.3739</b>	<b>0.2853</b>	<b>1.3865</b>	<b>1.6718</b>		<b>3,857.1420</b>	<b>3,857.1420</b>	<b>1.0933</b>		<b>3,880.1021</b>

### 3.2 Demolition - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1371	1.7383	1.5763	6.4500e-003	0.1516	0.0327	0.1843	0.0415	0.0301	0.0716		606.8875	606.8875	4.7700e-003		606.9877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0497	0.0626	0.7821	2.3200e-003	0.1788	1.5100e-003	0.1804	0.0474	1.4000e-003	0.0488		168.1792	168.1792	8.1400e-003		168.3501
<b>Total</b>	<b>0.1868</b>	<b>1.8008</b>	<b>2.3583</b>	<b>8.7700e-003</b>	<b>0.3304</b>	<b>0.0342</b>	<b>0.3647</b>	<b>0.0890</b>	<b>0.0315</b>	<b>0.1204</b>		<b>775.0666</b>	<b>775.0666</b>	<b>0.0129</b>		<b>775.3379</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7348	0.0000	0.7348	0.1113	0.0000	0.1113			0.0000			0.0000
Off-Road	3.0964	31.0154	29.6099	0.0400		1.4899	1.4899		1.3865	1.3865	0.0000	3,857.1420	3,857.1420	1.0933		3,880.1021
<b>Total</b>	<b>3.0964</b>	<b>31.0154</b>	<b>29.6099</b>	<b>0.0400</b>	<b>0.7348</b>	<b>1.4899</b>	<b>2.2247</b>	<b>0.1113</b>	<b>1.3865</b>	<b>1.4978</b>	<b>0.0000</b>	<b>3,857.1420</b>	<b>3,857.1420</b>	<b>1.0933</b>		<b>3,880.1021</b>

### 3.2 Demolition - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1371	1.7383	1.5763	6.4500e-003	0.1516	0.0327	0.1843	0.0415	0.0301	0.0716		606.8875	606.8875	4.7700e-003		606.9877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0497	0.0626	0.7821	2.3200e-003	0.1788	1.5100e-003	0.1804	0.0474	1.4000e-003	0.0488		168.1792	168.1792	8.1400e-003		168.3501
<b>Total</b>	<b>0.1868</b>	<b>1.8008</b>	<b>2.3583</b>	<b>8.7700e-003</b>	<b>0.3304</b>	<b>0.0342</b>	<b>0.3647</b>	<b>0.0890</b>	<b>0.0315</b>	<b>0.1204</b>		<b>775.0666</b>	<b>775.0666</b>	<b>0.0129</b>		<b>775.3379</b>

### 3.3 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0967	0.0000	18.0967	9.9353	0.0000	9.9353			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764		3,792.2816	3,792.2816	1.2265		3,818.0381
<b>Total</b>	<b>3.7250</b>	<b>38.8640</b>	<b>32.9264</b>	<b>0.0391</b>	<b>18.0967</b>	<b>1.9309</b>	<b>20.0276</b>	<b>9.9353</b>	<b>1.7764</b>	<b>11.7117</b>		<b>3,792.2816</b>	<b>3,792.2816</b>	<b>1.2265</b>		<b>3,818.0381</b>

### 3.3 Site Preparation - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5312	6.7332	6.1057	0.0250	0.5872	0.1267	0.7140	0.1608	0.1166	0.2774		2,350.8170	2,350.8170	0.0185		2,351.2054
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939
<b>Total</b>	<b>0.5870</b>	<b>6.8036</b>	<b>6.9856</b>	<b>0.0276</b>	<b>0.7884</b>	<b>0.1284</b>	<b>0.9169</b>	<b>0.2142</b>	<b>0.1182</b>	<b>0.3323</b>		<b>2,540.0185</b>	<b>2,540.0185</b>	<b>0.0277</b>		<b>2,540.5993</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0577	0.0000	7.0577	3.8748	0.0000	3.8748			0.0000			0.0000
Off-Road	3.7250	38.8640	32.9264	0.0391		1.9309	1.9309		1.7764	1.7764	0.0000	3,792.2816	3,792.2816	1.2265		3,818.0381
<b>Total</b>	<b>3.7250</b>	<b>38.8640</b>	<b>32.9264</b>	<b>0.0391</b>	<b>7.0577</b>	<b>1.9309</b>	<b>8.9886</b>	<b>3.8748</b>	<b>1.7764</b>	<b>5.6512</b>	<b>0.0000</b>	<b>3,792.2816</b>	<b>3,792.2816</b>	<b>1.2265</b>		<b>3,818.0381</b>

### 3.3 Site Preparation - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5312	6.7332	6.1057	0.0250	0.5872	0.1267	0.7140	0.1608	0.1166	0.2774		2,350.8170	2,350.8170	0.0185		2,351.2054
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939
<b>Total</b>	<b>0.5870</b>	<b>6.8036</b>	<b>6.9856</b>	<b>0.0276</b>	<b>0.7884</b>	<b>0.1284</b>	<b>0.9169</b>	<b>0.2142</b>	<b>0.1182</b>	<b>0.3323</b>		<b>2,540.0185</b>	<b>2,540.0185</b>	<b>0.0277</b>		<b>2,540.5993</b>

### 3.4 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.1397	0.0000	13.1397	6.7403	0.0000	6.7403			0.0000			0.0000
Off-Road	4.4816	45.4755	38.5240	0.0501		2.3476	2.3476		2.1598	2.1598		4,856.9650	4,856.9650	1.5708		4,889.9527
<b>Total</b>	<b>4.4816</b>	<b>45.4755</b>	<b>38.5240</b>	<b>0.0501</b>	<b>13.1397</b>	<b>2.3476</b>	<b>15.4874</b>	<b>6.7403</b>	<b>2.1598</b>	<b>8.9001</b>		<b>4,856.9650</b>	<b>4,856.9650</b>	<b>1.5708</b>		<b>4,889.9527</b>

### 3.4 Grading - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6109	7.7442	7.0225	0.0288	0.6754	0.1457	0.8212	0.1850	0.1341	0.3190		2,703.7883	2,703.7883	0.0213		2,704.2351
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0745	0.0939	1.1731	3.4700e-003	0.2683	2.2700e-003	0.2705	0.0711	2.1100e-003	0.0733		252.2687	252.2687	0.0122		252.5252
<b>Total</b>	<b>0.6854</b>	<b>7.8381</b>	<b>8.1956</b>	<b>0.0322</b>	<b>0.9437</b>	<b>0.1480</b>	<b>1.0917</b>	<b>0.2561</b>	<b>0.1362</b>	<b>0.3923</b>		<b>2,956.0571</b>	<b>2,956.0571</b>	<b>0.0335</b>		<b>2,956.7602</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.1245	0.0000	5.1245	2.6287	0.0000	2.6287			0.0000			0.0000
Off-Road	4.4816	45.4755	38.5240	0.0501		2.3476	2.3476		2.1598	2.1598	0.0000	4,856.9650	4,856.9650	1.5708		4,889.9526
<b>Total</b>	<b>4.4816</b>	<b>45.4755</b>	<b>38.5240</b>	<b>0.0501</b>	<b>5.1245</b>	<b>2.3476</b>	<b>7.4721</b>	<b>2.6287</b>	<b>2.1598</b>	<b>4.7885</b>	<b>0.0000</b>	<b>4,856.9650</b>	<b>4,856.9650</b>	<b>1.5708</b>		<b>4,889.9526</b>



### 3.4 Grading - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6109	7.7442	7.0225	0.0288	0.6754	0.1457	0.8212	0.1850	0.1341	0.3190		2,703.7883	2,703.7883	0.0213		2,704.2351
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0745	0.0939	1.1731	3.4700e-003	0.2683	2.2700e-003	0.2705	0.0711	2.1100e-003	0.0733		252.2687	252.2687	0.0122		252.5252
<b>Total</b>	<b>0.6854</b>	<b>7.8381</b>	<b>8.1956</b>	<b>0.0322</b>	<b>0.9437</b>	<b>0.1480</b>	<b>1.0917</b>	<b>0.2561</b>	<b>0.1362</b>	<b>0.3923</b>		<b>2,956.0571</b>	<b>2,956.0571</b>	<b>0.0335</b>		<b>2,956.7602</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194		2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>		<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>		<b>2,555.4880</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3954	3.5534	5.1152	0.0131	0.3745	0.0598	0.4343	0.1066	0.0550	0.1616		1,224.6290	1,224.6290	8.9400e-003			1,224.8167
Worker	0.4161	0.5242	6.5499	0.0194	1.4978	0.0127	1.5105	0.3972	0.0118	0.4090		1,408.5004	1,408.5004	0.0682			1,409.9322
<b>Total</b>	<b>0.8114</b>	<b>4.0775</b>	<b>11.6651</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0725</b>	<b>1.9448</b>	<b>0.5038</b>	<b>0.0668</b>	<b>0.5706</b>		<b>2,633.1294</b>	<b>2,633.1294</b>	<b>0.0771</b>			<b>2,634.7489</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465	0.0000	2,542.4799	2,542.4799	0.6194			2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>	<b>0.0000</b>	<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>			<b>2,555.4880</b>

### 3.5 Building Construction - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3954	3.5534	5.1152	0.0131	0.3745	0.0598	0.4343	0.1066	0.0550	0.1616		1,224.6290	1,224.6290	8.9400e-003			1,224.8167
Worker	0.4161	0.5242	6.5499	0.0194	1.4978	0.0127	1.5105	0.3972	0.0118	0.4090		1,408.5004	1,408.5004	0.0682			1,409.9322
<b>Total</b>	<b>0.8114</b>	<b>4.0775</b>	<b>11.6651</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0725</b>	<b>1.9448</b>	<b>0.5038</b>	<b>0.0668</b>	<b>0.5706</b>		<b>2,633.1294</b>	<b>2,633.1294</b>	<b>0.0771</b>			<b>2,634.7489</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979		2,542.7817	2,542.7817	0.6126			2,555.6462
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>		<b>2,542.7817</b>	<b>2,542.7817</b>	<b>0.6126</b>			<b>2,555.6462</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3822	3.0226	4.9682	0.0131	0.3745	0.0545	0.4290	0.1066	0.0501	0.1567		1,223.6921	1,223.6921	9.0000e-003		1,223.8810
Worker	0.3935	0.4894	6.1529	0.0194	1.4978	0.0126	1.5105	0.3972	0.0117	0.4090		1,386.4905	1,386.4905	0.0652		1,387.8601
<b>Total</b>	<b>0.7757</b>	<b>3.5120</b>	<b>11.1211</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0671</b>	<b>1.9395</b>	<b>0.5038</b>	<b>0.0618</b>	<b>0.5657</b>		<b>2,610.1826</b>	<b>2,610.1826</b>	<b>0.0742</b>		<b>2,611.7411</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979	0.0000	2,542.7817	2,542.7817	0.6126		2,555.6462
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>	<b>0.0000</b>	<b>2,542.7817</b>	<b>2,542.7817</b>	<b>0.6126</b>		<b>2,555.6462</b>

### 3.5 Building Construction - 2021

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3822	3.0226	4.9682	0.0131	0.3745	0.0545	0.4290	0.1066	0.0501	0.1567		1,223.6921	1,223.6921	9.0000e-003			1,223.8810
Worker	0.3935	0.4894	6.1529	0.0194	1.4978	0.0126	1.5105	0.3972	0.0117	0.4090		1,386.4905	1,386.4905	0.0652			1,387.8601
<b>Total</b>	<b>0.7757</b>	<b>3.5120</b>	<b>11.1211</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0671</b>	<b>1.9395</b>	<b>0.5038</b>	<b>0.0618</b>	<b>0.5657</b>		<b>2,610.1826</b>	<b>2,610.1826</b>	<b>0.0742</b>			<b>2,611.7411</b>

### 3.5 Building Construction - 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	lb/day										lb/day						
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581		2,543.7497	2,543.7497	0.6085			2,556.5286
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>		<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>			<b>2,556.5286</b>

### 3.5 Building Construction - 2022

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3745	2.7443	4.8457	0.0131	0.3745	0.0539	0.4284	0.1066	0.0496	0.1562		1,222.6855	1,222.6855	9.1900e-003			1,222.8785
Worker	0.3722	0.4582	5.7806	0.0194	1.4978	0.0126	1.5104	0.3972	0.0117	0.4089		1,363.4681	1,363.4681	0.0624			1,364.7787
<b>Total</b>	<b>0.7467</b>	<b>3.2025</b>	<b>10.6263</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0665</b>	<b>1.9388</b>	<b>0.5038</b>	<b>0.0612</b>	<b>0.5651</b>		<b>2,586.1536</b>	<b>2,586.1536</b>	<b>0.0716</b>			<b>2,587.6573</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581	0.0000	2,543.7497	2,543.7497	0.6085			2,556.5286
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>	<b>0.0000</b>	<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>			<b>2,556.5286</b>

### 3.5 Building Construction - 2022

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3745	2.7443	4.8457	0.0131	0.3745	0.0539	0.4284	0.1066	0.0496	0.1562		1,222.6855	1,222.6855	9.1900e-003		1,222.8785
Worker	0.3722	0.4582	5.7806	0.0194	1.4978	0.0126	1.5104	0.3972	0.0117	0.4089		1,363.4681	1,363.4681	0.0624		1,364.7787
<b>Total</b>	<b>0.7467</b>	<b>3.2025</b>	<b>10.6263</b>	<b>0.0325</b>	<b>1.8723</b>	<b>0.0665</b>	<b>1.9388</b>	<b>0.5038</b>	<b>0.0612</b>	<b>0.5651</b>		<b>2,586.1536</b>	<b>2,586.1536</b>	<b>0.0716</b>		<b>2,587.6573</b>

### 3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557		2,544.6262	2,544.6262	0.6044		2,557.3191
<b>Total</b>	<b>1.5661</b>	<b>14.3126</b>	<b>16.2093</b>	<b>0.0268</b>		<b>0.6967</b>	<b>0.6967</b>		<b>0.6557</b>	<b>0.6557</b>		<b>2,544.6262</b>	<b>2,544.6262</b>	<b>0.6044</b>		<b>2,557.3191</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3470	2.1885	4.6525	0.0130	0.3746	0.0532	0.4277	0.1066	0.0489	0.1555		1,216.933 2	1,216.933 2	8.2500e- 003			1,217.106 5
Worker	0.3520	0.4303	5.4371	0.0194	1.4978	0.0125	1.5103	0.3972	0.0116	0.4088		1,342.326 3	1,342.326 3	0.0599			1,343.584 3
<b>Total</b>	<b>0.6990</b>	<b>2.6188</b>	<b>10.0896</b>	<b>0.0324</b>	<b>1.8724</b>	<b>0.0657</b>	<b>1.9381</b>	<b>0.5038</b>	<b>0.0606</b>	<b>0.5644</b>		<b>2,559.259 5</b>	<b>2,559.259 5</b>	<b>0.0682</b>			<b>2,560.690 9</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557	0.0000	2,544.626 2	2,544.626 2	0.6044			2,557.319 1
<b>Total</b>	<b>1.5661</b>	<b>14.3126</b>	<b>16.2093</b>	<b>0.0268</b>		<b>0.6967</b>	<b>0.6967</b>		<b>0.6557</b>	<b>0.6557</b>	<b>0.0000</b>	<b>2,544.626 2</b>	<b>2,544.626 2</b>	<b>0.6044</b>			<b>2,557.319 1</b>



### 3.5 Building Construction - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3470	2.1885	4.6525	0.0130	0.3746	0.0532	0.4277	0.1066	0.0489	0.1555		1,216.933 2	1,216.933 2	8.2500e- 003			1,217.106 5
Worker	0.3520	0.4303	5.4371	0.0194	1.4978	0.0125	1.5103	0.3972	0.0116	0.4088		1,342.326 3	1,342.326 3	0.0599			1,343.584 3
<b>Total</b>	<b>0.6990</b>	<b>2.6188</b>	<b>10.0896</b>	<b>0.0324</b>	<b>1.8724</b>	<b>0.0657</b>	<b>1.9381</b>	<b>0.5038</b>	<b>0.0606</b>	<b>0.5644</b>		<b>2,559.259 5</b>	<b>2,559.259 5</b>	<b>0.0682</b>			<b>2,560.690 9</b>

### 3.6 Paving - 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	lb/day										lb/day						
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609		2,160.613 9	2,160.613 9	0.6988			2,175.288 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.0128</b>	<b>9.9983</b>	<b>14.2850</b>	<b>0.0223</b>		<b>0.5010</b>	<b>0.5010</b>		<b>0.4609</b>	<b>0.4609</b>		<b>2,160.613 9</b>	<b>2,160.613 9</b>	<b>0.6988</b>			<b>2,175.288 4</b>

### 3.6 Paving - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0420	0.0514	0.6492	2.3200e-003	0.1788	1.5000e-003	0.1803	0.0474	1.3900e-003	0.0488		160.2778	160.2778	7.1500e-003			160.4280
<b>Total</b>	<b>0.0420</b>	<b>0.0514</b>	<b>0.6492</b>	<b>2.3200e-003</b>	<b>0.1788</b>	<b>1.5000e-003</b>	<b>0.1803</b>	<b>0.0474</b>	<b>1.3900e-003</b>	<b>0.0488</b>		<b>160.2778</b>	<b>160.2778</b>	<b>7.1500e-003</b>			<b>160.4280</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609	0.0000	2,160.6139	2,160.6139	0.6988			2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.0128</b>	<b>9.9983</b>	<b>14.2850</b>	<b>0.0223</b>		<b>0.5010</b>	<b>0.5010</b>		<b>0.4609</b>	<b>0.4609</b>	<b>0.0000</b>	<b>2,160.6139</b>	<b>2,160.6139</b>	<b>0.6988</b>			<b>2,175.2884</b>

### 3.6 Paving - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0420	0.0514	0.6492	2.3200e-003	0.1788	1.5000e-003	0.1803	0.0474	1.3900e-003	0.0488		160.2778	160.2778	7.1500e-003			160.4280
<b>Total</b>	<b>0.0420</b>	<b>0.0514</b>	<b>0.6492</b>	<b>2.3200e-003</b>	<b>0.1788</b>	<b>1.5000e-003</b>	<b>0.1803</b>	<b>0.0474</b>	<b>1.3900e-003</b>	<b>0.0488</b>		<b>160.2778</b>	<b>160.2778</b>	<b>7.1500e-003</b>			<b>160.4280</b>

### 3.7 Architectural Coating - 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	lb/day										lb/day						
Archit. Coating	20.8830					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>21.0747</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</b>

### 3.7 Architectural Coating - 2023

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0736	0.0899	1.1361	4.0600e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4300e-003	0.0854		280.4861	280.4861	0.0125			280.7490
<b>Total</b>	<b>0.0736</b>	<b>0.0899</b>	<b>1.1361</b>	<b>4.0600e-003</b>	<b>0.3130</b>	<b>2.6200e-003</b>	<b>0.3156</b>	<b>0.0830</b>	<b>2.4300e-003</b>	<b>0.0854</b>		<b>280.4861</b>	<b>280.4861</b>	<b>0.0125</b>			<b>280.7490</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	20.8830					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>21.0747</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</b>

### 3.7 Architectural Coating - 2023

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0736	0.0899	1.1361	4.0600e-003	0.3130	2.6200e-003	0.3156	0.0830	2.4300e-003	0.0854		280.4861	280.4861	0.0125		280.7490
<b>Total</b>	<b>0.0736</b>	<b>0.0899</b>	<b>1.1361</b>	<b>4.0600e-003</b>	<b>0.3130</b>	<b>2.6200e-003</b>	<b>0.3156</b>	<b>0.0830</b>	<b>2.4300e-003</b>	<b>0.0854</b>		<b>280.4861</b>	<b>280.4861</b>	<b>0.0125</b>		<b>280.7490</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

## AMC Construction - Super Compliant Coatings Los Angeles-South Coast County, Annual

### 1.0 Project Characteristics

---

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	262.55	1000sqft	5.21	262,550.00	0
Other Non-Asphalt Surfaces	188.00	1000sqft	4.32	188,000.00	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>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 - Construction only.

Land Use - Total site acreage = 9.53 acres.

Construction Phase - Project schedule from Metro.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Round trips accounted for.

Demolition -

Grading - During site preparation, approximately 280,460 square feet of asphalt surface and 26,000 square feet of concrete surface will be removed.

Architectural Coating - Super Compliant Coating mitigation.

Vehicle Trips - Construction Only.

Area Coating - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Comply with SCAQMD Rule 403 for Fugitive Dust Control.

Area Mitigation - SCC

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	225275	0
tblAreaCoating	Area_Nonresidential_Interior	675825	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	10

tblConstructionPhase	NumDays	230.00	675.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/4/2023	7/7/2023
tblConstructionPhase	PhaseStartDate	7/8/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	11/7/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	8/29/2020	8/31/2020
tblConstructionPhase	PhaseStartDate	6/10/2023	6/12/2023
tblConstructionPhase	PhaseStartDate	8/1/2020	8/3/2020
tblEnergyUse	LightingElect	4.25	0.00
tblEnergyUse	NT24E	4.79	0.00
tblEnergyUse	NT24NG	0.19	0.00
tblEnergyUse	T24E	6.86	0.00
tblEnergyUse	T24NG	10.10	0.00
tblGrading	MaterialExported	0.00	15,500.00
tblGrading	MaterialExported	0.00	6,810.25
tblLandUse	LotAcreage	6.03	5.21
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024
tblSolidWaste	SolidWasteGenerationRate	244.17	0.00
tblTripsAndVMT	HaulingTripNumber	673.00	674.00
tblTripsAndVMT	VendorTripNumber	74.00	60.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblTripsAndVMT	WorkerTripNumber	163.00	134.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00



tblTripsAndVMT	WorkerTripNumber	33.00	28.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblWater	IndoorWaterUseRate	46,663,995.54	0.00
tblWater	OutdoorWaterUseRate	28,600,513.39	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					
2020	0.2629	2.5890	2.4868	4.3500e-003	0.5983	0.1214	0.7196	0.2897	0.1122	0.4019	0.0000	366.6632	366.6632	0.0701	0.0000	368.1359
2021	0.3495	2.7469	3.6936	7.6300e-003	0.2397	0.1334	0.3731	0.0646	0.1253	0.1899	0.0000	602.7690	602.7690	0.0813	0.0000	604.4768
2022	0.3191	2.4595	3.5854	7.6000e-003	0.2388	0.1134	0.3522	0.0644	0.1065	0.1709	0.0000	597.8436	597.8436	0.0802	0.0000	599.5283
2023	0.3527	1.0965	1.7255	3.6700e-003	0.1104	0.0496	0.1600	0.0298	0.0466	0.0763	0.0000	289.1024	289.1024	0.0418	0.0000	289.9794
<b>Total</b>	<b>1.2843</b>	<b>8.8919</b>	<b>11.4913</b>	<b>0.0233</b>	<b>1.1872</b>	<b>0.4178</b>	<b>1.6049</b>	<b>0.4484</b>	<b>0.3906</b>	<b>0.8390</b>	<b>0.0000</b>	<b>1,856.3782</b>	<b>1,856.3782</b>	<b>0.2735</b>	<b>0.0000</b>	<b>1,862.1205</b>



Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/6/2020	7/31/2020	5	20	
2	Site Preparation	Site Preparation	8/3/2020	8/28/2020	5	20	
3	Grading	Grading	8/31/2020	11/6/2020	5	50	
4	Building Construction	Building Construction	11/9/2020	6/9/2023	5	675	
5	Paving	Paving	6/12/2023	7/7/2023	5	20	
6	Architectural Coating	Architectural Coating	6/12/2023	7/7/2023	5	20	

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

**Acres of Grading (Grading Phase): 50**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 675,825; Non-Residential Outdoor: 225,275 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	174.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	674.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	24.00	0.00	1,938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	134.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2020

#### 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					0.0188	0.0000	0.0188	2.8500e-003	0.0000	2.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.3102	0.2961	4.0000e-004		0.0149	0.0149		0.0139	0.0139	0.0000	34.9914	34.9914	9.9200e-003	0.0000	35.1997
<b>Total</b>	<b>0.0310</b>	<b>0.3102</b>	<b>0.2961</b>	<b>4.0000e-004</b>	<b>0.0188</b>	<b>0.0149</b>	<b>0.0337</b>	<b>2.8500e-003</b>	<b>0.0139</b>	<b>0.0167</b>	<b>0.0000</b>	<b>34.9914</b>	<b>34.9914</b>	<b>9.9200e-003</b>	<b>0.0000</b>	<b>35.1997</b>

**3.2 Demolition - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4100e-003	0.0183	0.0179	6.0000e-005	1.4900e-003	3.3000e-004	1.8200e-003	4.1000e-004	3.0000e-004	7.1000e-004	0.0000	5.5001	5.5001	4.0000e-005	0.0000	5.5011
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	4.8000e-004	7.1000e-004	7.4200e-003	2.0000e-005	1.7500e-003	2.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4629	1.4629	7.0000e-005	0.0000	1.4644
<b>Total</b>	<b>1.8900e-003</b>	<b>0.0190</b>	<b>0.0253</b>	<b>8.0000e-005</b>	<b>3.2400e-003</b>	<b>3.5000e-004</b>	<b>3.5900e-003</b>	<b>8.8000e-004</b>	<b>3.1000e-004</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>6.9630</b>	<b>6.9630</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>6.9655</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					7.3500e-003	0.0000	7.3500e-003	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.3102	0.2961	4.0000e-004		0.0149	0.0149		0.0139	0.0139	0.0000	34.9914	34.9914	9.9200e-003	0.0000	35.1997
<b>Total</b>	<b>0.0310</b>	<b>0.3102</b>	<b>0.2961</b>	<b>4.0000e-004</b>	<b>7.3500e-003</b>	<b>0.0149</b>	<b>0.0223</b>	<b>1.1100e-003</b>	<b>0.0139</b>	<b>0.0150</b>	<b>0.0000</b>	<b>34.9914</b>	<b>34.9914</b>	<b>9.9200e-003</b>	<b>0.0000</b>	<b>35.1997</b>

### 3.2 Demolition - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4100e-003	0.0183	0.0179	6.0000e-005	1.4900e-003	3.3000e-004	1.8200e-003	4.1000e-004	3.0000e-004	7.1000e-004	0.0000	5.5001	5.5001	4.0000e-005	0.0000	5.5011
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	4.8000e-004	7.1000e-004	7.4200e-003	2.0000e-005	1.7500e-003	2.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4629	1.4629	7.0000e-005	0.0000	1.4644
<b>Total</b>	<b>1.8900e-003</b>	<b>0.0190</b>	<b>0.0253</b>	<b>8.0000e-005</b>	<b>3.2400e-003</b>	<b>3.5000e-004</b>	<b>3.5900e-003</b>	<b>8.8000e-004</b>	<b>3.1000e-004</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>6.9630</b>	<b>6.9630</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>6.9655</b>

### 3.3 Site Preparation - 2020

#### 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					0.1810	0.0000	0.1810	0.0994	0.0000	0.0994	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.3886	0.3293	3.9000e-004		0.0193	0.0193		0.0178	0.0178	0.0000	34.4030	34.4030	0.0111	0.0000	34.6367
<b>Total</b>	<b>0.0373</b>	<b>0.3886</b>	<b>0.3293</b>	<b>3.9000e-004</b>	<b>0.1810</b>	<b>0.0193</b>	<b>0.2003</b>	<b>0.0994</b>	<b>0.0178</b>	<b>0.1171</b>	<b>0.0000</b>	<b>34.4030</b>	<b>34.4030</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6367</b>

### 3.3 Site Preparation - 2020

#### 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	5.4800e-003	0.0709	0.0694	2.5000e-004	5.7700e-003	1.2700e-003	7.0400e-003	1.5800e-003	1.1700e-003	2.7500e-003	0.0000	21.3051	21.3051	1.7000e-004	0.0000	21.3087
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	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	1.6458	8.0000e-005	0.0000	1.6475
<b>Total</b>	<b>6.0200e-003</b>	<b>0.0717</b>	<b>0.0778</b>	<b>2.7000e-004</b>	<b>7.7400e-003</b>	<b>1.2900e-003</b>	<b>9.0300e-003</b>	<b>2.1000e-003</b>	<b>1.1900e-003</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>22.9509</b>	<b>22.9509</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>22.9562</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					0.0706	0.0000	0.0706	0.0388	0.0000	0.0388	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.3886	0.3293	3.9000e-004		0.0193	0.0193		0.0178	0.0178	0.0000	34.4030	34.4030	0.0111	0.0000	34.6366
<b>Total</b>	<b>0.0373</b>	<b>0.3886</b>	<b>0.3293</b>	<b>3.9000e-004</b>	<b>0.0706</b>	<b>0.0193</b>	<b>0.0899</b>	<b>0.0388</b>	<b>0.0178</b>	<b>0.0565</b>	<b>0.0000</b>	<b>34.4030</b>	<b>34.4030</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6366</b>



**3.3 Site Preparation - 2020****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	5.4800e-003	0.0709	0.0694	2.5000e-004	5.7700e-003	1.2700e-003	7.0400e-003	1.5800e-003	1.1700e-003	2.7500e-003	0.0000	21.3051	21.3051	1.7000e-004	0.0000	21.3087
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	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	1.6458	8.0000e-005	0.0000	1.6475
<b>Total</b>	<b>6.0200e-003</b>	<b>0.0717</b>	<b>0.0778</b>	<b>2.7000e-004</b>	<b>7.7400e-003</b>	<b>1.2900e-003</b>	<b>9.0300e-003</b>	<b>2.1000e-003</b>	<b>1.1900e-003</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>22.9509</b>	<b>22.9509</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>22.9562</b>

**3.4 Grading - 2020****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					0.3285	0.0000	0.3285	0.1685	0.0000	0.1685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1120	1.1369	0.9631	1.2500e-003		0.0587	0.0587		0.0540	0.0540	0.0000	110.1541	110.1541	0.0356	0.0000	110.9023
<b>Total</b>	<b>0.1120</b>	<b>1.1369</b>	<b>0.9631</b>	<b>1.2500e-003</b>	<b>0.3285</b>	<b>0.0587</b>	<b>0.3872</b>	<b>0.1685</b>	<b>0.0540</b>	<b>0.2225</b>	<b>0.0000</b>	<b>110.1541</b>	<b>110.1541</b>	<b>0.0356</b>	<b>0.0000</b>	<b>110.9023</b>

### 3.4 Grading - 2020

#### 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	0.0157	0.2039	0.1996	7.2000e-004	0.0166	3.6500e-003	0.0202	4.5500e-003	3.3600e-003	7.9100e-003	0.0000	61.2601	61.2601	4.9000e-004	0.0000	61.2703
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	2.6700e-003	0.0278	8.0000e-005	6.5700e-003	6.0000e-005	6.6300e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	5.4858	5.4858	2.8000e-004	0.0000	5.4917
<b>Total</b>	<b>0.0176</b>	<b>0.2066</b>	<b>0.2274</b>	<b>8.0000e-004</b>	<b>0.0232</b>	<b>3.7100e-003</b>	<b>0.0269</b>	<b>6.3000e-003</b>	<b>3.4100e-003</b>	<b>9.7100e-003</b>	<b>0.0000</b>	<b>66.7459</b>	<b>66.7459</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>66.7619</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					0.1281	0.0000	0.1281	0.0657	0.0000	0.0657	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1120	1.1369	0.9631	1.2500e-003		0.0587	0.0587		0.0540	0.0540	0.0000	110.1540	110.1540	0.0356	0.0000	110.9021
<b>Total</b>	<b>0.1120</b>	<b>1.1369</b>	<b>0.9631</b>	<b>1.2500e-003</b>	<b>0.1281</b>	<b>0.0587</b>	<b>0.1868</b>	<b>0.0657</b>	<b>0.0540</b>	<b>0.1197</b>	<b>0.0000</b>	<b>110.1540</b>	<b>110.1540</b>	<b>0.0356</b>	<b>0.0000</b>	<b>110.9021</b>

### 3.4 Grading - 2020

#### 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	0.0157	0.2039	0.1996	7.2000e-004	0.0166	3.6500e-003	0.0202	4.5500e-003	3.3600e-003	7.9100e-003	0.0000	61.2601	61.2601	4.9000e-004	0.0000	61.2703
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	2.6700e-003	0.0278	8.0000e-005	6.5700e-003	6.0000e-005	6.6300e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	5.4858	5.4858	2.8000e-004	0.0000	5.4917
<b>Total</b>	<b>0.0176</b>	<b>0.2066</b>	<b>0.2274</b>	<b>8.0000e-004</b>	<b>0.0232</b>	<b>3.7100e-003</b>	<b>0.0269</b>	<b>6.3000e-003</b>	<b>3.4100e-003</b>	<b>9.7100e-003</b>	<b>0.0000</b>	<b>66.7459</b>	<b>66.7459</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>66.7619</b>

### 3.5 Building Construction - 2020

#### 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	0.0412	0.3721	0.3278	5.2000e-004		0.0217	0.0217		0.0204	0.0204	0.0000	44.9767	44.9767	0.0110	0.0000	45.2069
<b>Total</b>	<b>0.0412</b>	<b>0.3721</b>	<b>0.3278</b>	<b>5.2000e-004</b>		<b>0.0217</b>	<b>0.0217</b>		<b>0.0204</b>	<b>0.0204</b>	<b>0.0000</b>	<b>44.9767</b>	<b>44.9767</b>	<b>0.0110</b>	<b>0.0000</b>	<b>45.2069</b>

### 3.5 Building Construction - 2020

#### 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	8.1600e-003	0.0723	0.1188	2.5000e-004	7.1800e-003	1.1700e-003	8.3500e-003	2.0500e-003	1.0800e-003	3.1300e-003	0.0000	21.5873	21.5873	1.6000e-004	0.0000	21.5907
Worker	7.8800e-003	0.0116	0.1212	3.6000e-004	0.0286	2.5000e-004	0.0289	7.6100e-003	2.3000e-004	7.8300e-003	0.0000	23.8909	23.8909	1.2100e-003	0.0000	23.9162
<b>Total</b>	<b>0.0160</b>	<b>0.0839</b>	<b>0.2400</b>	<b>6.1000e-004</b>	<b>0.0358</b>	<b>1.4200e-003</b>	<b>0.0372</b>	<b>9.6600e-003</b>	<b>1.3100e-003</b>	<b>0.0110</b>	<b>0.0000</b>	<b>45.4782</b>	<b>45.4782</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>45.5069</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	0.0412	0.3721	0.3278	5.2000e-004		0.0217	0.0217		0.0204	0.0204	0.0000	44.9767	44.9767	0.0110	0.0000	45.2068
<b>Total</b>	<b>0.0412</b>	<b>0.3721</b>	<b>0.3278</b>	<b>5.2000e-004</b>		<b>0.0217</b>	<b>0.0217</b>		<b>0.0204</b>	<b>0.0204</b>	<b>0.0000</b>	<b>44.9767</b>	<b>44.9767</b>	<b>0.0110</b>	<b>0.0000</b>	<b>45.2068</b>

### 3.5 Building Construction - 2020

#### 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	8.1600e-003	0.0723	0.1188	2.5000e-004	7.1800e-003	1.1700e-003	8.3500e-003	2.0500e-003	1.0800e-003	3.1300e-003	0.0000	21.5873	21.5873	1.6000e-004	0.0000	21.5907
Worker	7.8800e-003	0.0116	0.1212	3.6000e-004	0.0286	2.5000e-004	0.0289	7.6100e-003	2.3000e-004	7.8300e-003	0.0000	23.8909	23.8909	1.2100e-003	0.0000	23.9162
<b>Total</b>	<b>0.0160</b>	<b>0.0839</b>	<b>0.2400</b>	<b>6.1000e-004</b>	<b>0.0358</b>	<b>1.4200e-003</b>	<b>0.0372</b>	<b>9.6600e-003</b>	<b>1.3100e-003</b>	<b>0.0110</b>	<b>0.0000</b>	<b>45.4782</b>	<b>45.4782</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>45.5069</b>

### 3.5 Building Construction - 2021

#### 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	0.2471	2.2629	2.1582	3.5000e-003		0.1246	0.1246		0.1172	0.1172	0.0000	301.0339	301.0339	0.0725	0.0000	302.5568
<b>Total</b>	<b>0.2471</b>	<b>2.2629</b>	<b>2.1582</b>	<b>3.5000e-003</b>		<b>0.1246</b>	<b>0.1246</b>		<b>0.1172</b>	<b>0.1172</b>	<b>0.0000</b>	<b>301.0339</b>	<b>301.0339</b>	<b>0.0725</b>	<b>0.0000</b>	<b>302.5568</b>

### 3.5 Building Construction - 2021

#### 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	0.0527	0.4113	0.7741	1.7000e-003	0.0481	7.1300e-003	0.0552	0.0137	6.5600e-003	0.0203	0.0000	144.3581	144.3581	1.0800e-003	0.0000	144.3808
Worker	0.0498	0.0727	0.7613	2.4300e-003	0.1916	1.6500e-003	0.1933	0.0509	1.5300e-003	0.0524	0.0000	157.3771	157.3771	7.7200e-003	0.0000	157.5392
<b>Total</b>	<b>0.1025</b>	<b>0.4840</b>	<b>1.5354</b>	<b>4.1300e-003</b>	<b>0.2397</b>	<b>8.7800e-003</b>	<b>0.2485</b>	<b>0.0646</b>	<b>8.0900e-003</b>	<b>0.0727</b>	<b>0.0000</b>	<b>301.7352</b>	<b>301.7352</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>301.9200</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	0.2471	2.2629	2.1582	3.5000e-003		0.1246	0.1246		0.1172	0.1172	0.0000	301.0335	301.0335	0.0725	0.0000	302.5565
<b>Total</b>	<b>0.2471</b>	<b>2.2629</b>	<b>2.1582</b>	<b>3.5000e-003</b>		<b>0.1246</b>	<b>0.1246</b>		<b>0.1172</b>	<b>0.1172</b>	<b>0.0000</b>	<b>301.0335</b>	<b>301.0335</b>	<b>0.0725</b>	<b>0.0000</b>	<b>302.5565</b>

### 3.5 Building Construction - 2021

#### 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	0.0527	0.4113	0.7741	1.7000e-003	0.0481	7.1300e-003	0.0552	0.0137	6.5600e-003	0.0203	0.0000	144.3581	144.3581	1.0800e-003	0.0000	144.3808
Worker	0.0498	0.0727	0.7613	2.4300e-003	0.1916	1.6500e-003	0.1933	0.0509	1.5300e-003	0.0524	0.0000	157.3771	157.3771	7.7200e-003	0.0000	157.5392
<b>Total</b>	<b>0.1025</b>	<b>0.4840</b>	<b>1.5354</b>	<b>4.1300e-003</b>	<b>0.2397</b>	<b>8.7800e-003</b>	<b>0.2485</b>	<b>0.0646</b>	<b>8.0900e-003</b>	<b>0.0727</b>	<b>0.0000</b>	<b>301.7352</b>	<b>301.7352</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>301.9200</b>

### 3.5 Building Construction - 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					
Off-Road	0.2209	2.0197	2.1226	3.4900e-003		0.1047	0.1047		0.0986	0.0986	0.0000	299.9946	299.9946	0.0718	0.0000	301.5017
<b>Total</b>	<b>0.2209</b>	<b>2.0197</b>	<b>2.1226</b>	<b>3.4900e-003</b>		<b>0.1047</b>	<b>0.1047</b>		<b>0.0986</b>	<b>0.0986</b>	<b>0.0000</b>	<b>299.9946</b>	<b>299.9946</b>	<b>0.0718</b>	<b>0.0000</b>	<b>301.5017</b>

### 3.5 Building Construction - 2022

#### 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	0.0513	0.3720	0.7512	1.6900e-003	0.0479	7.0300e-003	0.0549	0.0137	6.4700e-003	0.0201	0.0000	143.6866	143.6866	1.1000e-003	0.0000	143.7097
Worker	0.0469	0.0678	0.7116	2.4200e-003	0.1909	1.6400e-003	0.1925	0.0507	1.5200e-003	0.0522	0.0000	154.1623	154.1623	7.3600e-003	0.0000	154.3169
<b>Total</b>	<b>0.0982</b>	<b>0.4398</b>	<b>1.4628</b>	<b>4.1100e-003</b>	<b>0.2388</b>	<b>8.6700e-003</b>	<b>0.2474</b>	<b>0.0644</b>	<b>7.9900e-003</b>	<b>0.0724</b>	<b>0.0000</b>	<b>297.8490</b>	<b>297.8490</b>	<b>8.4600e-003</b>	<b>0.0000</b>	<b>298.0266</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	0.2209	2.0197	2.1226	3.4900e-003		0.1047	0.1047		0.0986	0.0986	0.0000	299.9943	299.9943	0.0718	0.0000	301.5013
<b>Total</b>	<b>0.2209</b>	<b>2.0197</b>	<b>2.1226</b>	<b>3.4900e-003</b>		<b>0.1047</b>	<b>0.1047</b>		<b>0.0986</b>	<b>0.0986</b>	<b>0.0000</b>	<b>299.9943</b>	<b>299.9943</b>	<b>0.0718</b>	<b>0.0000</b>	<b>301.5013</b>



### 3.5 Building Construction - 2022

#### 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	0.0513	0.3720	0.7512	1.6900e-003	0.0479	7.0300e-003	0.0549	0.0137	6.4700e-003	0.0201	0.0000	143.6866	143.6866	1.1000e-003	0.0000	143.7097
Worker	0.0469	0.0678	0.7116	2.4200e-003	0.1909	1.6400e-003	0.1925	0.0507	1.5200e-003	0.0522	0.0000	154.1623	154.1623	7.3600e-003	0.0000	154.3169
<b>Total</b>	<b>0.0982</b>	<b>0.4398</b>	<b>1.4628</b>	<b>4.1100e-003</b>	<b>0.2388</b>	<b>8.6700e-003</b>	<b>0.2474</b>	<b>0.0644</b>	<b>7.9900e-003</b>	<b>0.0724</b>	<b>0.0000</b>	<b>297.8490</b>	<b>297.8490</b>	<b>8.4600e-003</b>	<b>0.0000</b>	<b>298.0266</b>

### 3.5 Building Construction - 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					
Off-Road	0.0901	0.8230	0.9320	1.5400e-003		0.0401	0.0401		0.0377	0.0377	0.0000	132.7357	132.7357	0.0315	0.0000	133.3978
<b>Total</b>	<b>0.0901</b>	<b>0.8230</b>	<b>0.9320</b>	<b>1.5400e-003</b>		<b>0.0401</b>	<b>0.0401</b>		<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>132.7357</b>	<b>132.7357</b>	<b>0.0315</b>	<b>0.0000</b>	<b>133.3978</b>

### 3.5 Building Construction - 2023

#### 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	0.0210	0.1308	0.3199	7.5000e-004	0.0212	3.0700e-003	0.0243	6.0400e-003	2.8200e-003	8.8700e-003	0.0000	63.2536	63.2536	4.4000e-004	0.0000	63.2628
Worker	0.0196	0.0281	0.2957	1.0700e-003	0.0844	7.2000e-004	0.0852	0.0224	6.7000e-004	0.0231	0.0000	67.1259	67.1259	3.1200e-003	0.0000	67.1915
<b>Total</b>	<b>0.0407</b>	<b>0.1589</b>	<b>0.6156</b>	<b>1.8200e-003</b>	<b>0.1056</b>	<b>3.7900e-003</b>	<b>0.1094</b>	<b>0.0285</b>	<b>3.4900e-003</b>	<b>0.0320</b>	<b>0.0000</b>	<b>130.3795</b>	<b>130.3795</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>130.4543</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	0.0901	0.8230	0.9320	1.5400e-003		0.0401	0.0401		0.0377	0.0377	0.0000	132.7355	132.7355	0.0315	0.0000	133.3976
<b>Total</b>	<b>0.0901</b>	<b>0.8230</b>	<b>0.9320</b>	<b>1.5400e-003</b>		<b>0.0401</b>	<b>0.0401</b>		<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>132.7355</b>	<b>132.7355</b>	<b>0.0315</b>	<b>0.0000</b>	<b>133.3976</b>

### 3.5 Building Construction - 2023

#### 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	0.0210	0.1308	0.3199	7.5000e-004	0.0212	3.0700e-003	0.0243	6.0400e-003	2.8200e-003	8.8700e-003	0.0000	63.2536	63.2536	4.4000e-004	0.0000	63.2628
Worker	0.0196	0.0281	0.2957	1.0700e-003	0.0844	7.2000e-004	0.0852	0.0224	6.7000e-004	0.0231	0.0000	67.1259	67.1259	3.1200e-003	0.0000	67.1915
<b>Total</b>	<b>0.0407</b>	<b>0.1589</b>	<b>0.6156</b>	<b>1.8200e-003</b>	<b>0.1056</b>	<b>3.7900e-003</b>	<b>0.1094</b>	<b>0.0285</b>	<b>3.4900e-003</b>	<b>0.0320</b>	<b>0.0000</b>	<b>130.3795</b>	<b>130.3795</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>130.4543</b>

### 3.6 Paving - 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					
Off-Road	0.0101	0.1000	0.1429	2.2000e-004		5.0100e-003	5.0100e-003		4.6100e-003	4.6100e-003	0.0000	19.6008	19.6008	6.3400e-003	0.0000	19.7339
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>0.0101</b>	<b>0.1000</b>	<b>0.1429</b>	<b>2.2000e-004</b>		<b>5.0100e-003</b>	<b>5.0100e-003</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>19.6008</b>	<b>19.6008</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>19.7339</b>

### 3.6 Paving - 2023

#### 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	4.1000e-004	5.8000e-004	6.1400e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3939	1.3939	6.0000e-005	0.0000	1.3953
<b>Total</b>	<b>4.1000e-004</b>	<b>5.8000e-004</b>	<b>6.1400e-003</b>	<b>2.0000e-005</b>	<b>1.7500e-003</b>	<b>1.0000e-005</b>	<b>1.7700e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.3939</b>	<b>1.3939</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3953</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	0.0101	0.1000	0.1429	2.2000e-004		5.0100e-003	5.0100e-003		4.6100e-003	4.6100e-003	0.0000	19.6007	19.6007	6.3400e-003	0.0000	19.7339
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>0.0101</b>	<b>0.1000</b>	<b>0.1429</b>	<b>2.2000e-004</b>		<b>5.0100e-003</b>	<b>5.0100e-003</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>19.6007</b>	<b>19.6007</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>19.7339</b>

### 3.6 Paving - 2023

#### 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	4.1000e-004	5.8000e-004	6.1400e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3939	1.3939	6.0000e-005	0.0000	1.3953
<b>Total</b>	<b>4.1000e-004</b>	<b>5.8000e-004</b>	<b>6.1400e-003</b>	<b>2.0000e-005</b>	<b>1.7500e-003</b>	<b>1.0000e-005</b>	<b>1.7700e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.3939</b>	<b>1.3939</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3953</b>

### 3.7 Architectural Coating - 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					
Archit. Coating	0.2088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5565
<b>Total</b>	<b>0.2108</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5565</b>

### 3.7 Architectural Coating - 2023

#### 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	7.1000e-004	1.0200e-003	0.0107	4.0000e-005	3.0700e-003	3.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.4394	2.4394	1.1000e-004	0.0000	2.4417
<b>Total</b>	<b>7.1000e-004</b>	<b>1.0200e-003</b>	<b>0.0107</b>	<b>4.0000e-005</b>	<b>3.0700e-003</b>	<b>3.0000e-005</b>	<b>3.0900e-003</b>	<b>8.1000e-004</b>	<b>2.0000e-005</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>2.4394</b>	<b>2.4394</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.4417</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	0.2088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5565
<b>Total</b>	<b>0.2108</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5565</b>



# **Operations Emissions Modeling Existing**



**AMC Existing Uses**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.78	1000sqft	0.02	780.00	0
General Office Building	10.92	1000sqft	0.25	10,920.00	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>	11			<b>Operational Year</b>	2016
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 Phase - Operations only.  
 Off-road Equipment -

**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	0.0559	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Energy	6.9000e-004	6.2700e-003	5.2700e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	101.5082	101.5082	2.3700e-003	5.9000e-004	101.7402
Mobile	0.0681	0.2074	0.8004	1.7900e-003	0.1192	2.8300e-003	0.1220	0.0319	2.6000e-003	0.0345	0.0000	143.0383	143.0383	6.1300e-003	0.0000	143.1671
Waste						0.0000	0.0000		0.0000	0.0000	2.2085	0.0000	2.2085	0.1305	0.0000	4.9495
Water						0.0000	0.0000		0.0000	0.0000	0.6597	22.9674	23.6271	0.0683	1.7100e-003	25.5922
<b>Total</b>	<b>0.1247</b>	<b>0.2136</b>	<b>0.8058</b>	<b>1.8300e-003</b>	<b>0.1192</b>	<b>3.3100e-003</b>	<b>0.1225</b>	<b>0.0319</b>	<b>3.0800e-003</b>	<b>0.0350</b>	<b>2.8683</b>	<b>267.5142</b>	<b>270.3825</b>	<b>0.2073</b>	<b>2.3000e-003</b>	<b>275.4493</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0559	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Energy	6.9000e-004	6.2700e-003	5.2700e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	101.5082	101.5082	2.3700e-003	5.9000e-004	101.7402
Mobile	0.0681	0.2074	0.8004	1.7900e-003	0.1192	2.8300e-003	0.1220	0.0319	2.6000e-003	0.0345	0.0000	143.0383	143.0383	6.1300e-003	0.0000	143.1671
Waste						0.0000	0.0000		0.0000	0.0000	2.2085	0.0000	2.2085	0.1305	0.0000	4.9495
Water						0.0000	0.0000		0.0000	0.0000	0.6597	22.9674	23.6271	0.0683	1.7100e-003	25.5912
<b>Total</b>	<b>0.1247</b>	<b>0.2136</b>	<b>0.8058</b>	<b>1.8300e-003</b>	<b>0.1192</b>	<b>3.3100e-003</b>	<b>0.1225</b>	<b>0.0319</b>	<b>3.0800e-003</b>	<b>0.0350</b>	<b>2.8683</b>	<b>267.5142</b>	<b>270.3825</b>	<b>0.2073</b>	<b>2.3000e-003</b>	<b>275.4482</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 3.0 Construction Detail

### Construction Phase

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0681	0.2074	0.8004	1.7900e-003	0.1192	2.8300e-003	0.1220	0.0319	2.6000e-003	0.0345	0.0000	143.0383	143.0383	6.1300e-003	0.0000	143.1671
Unmitigated	0.0681	0.2074	0.8004	1.7900e-003	0.1192	2.8300e-003	0.1220	0.0319	2.6000e-003	0.0345	0.0000	143.0383	143.0383	6.1300e-003	0.0000	143.1671

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	8.59	1.85	0.76	20,963	20,963
General Office Building	120.23	25.88	10.70	293,488	293,488
Total	128.82	27.73	11.47	314,451	314,451

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.6840	94.6840	2.2400e-003	4.6000e-004	94.8744
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.6840	94.6840	2.2400e-003	4.6000e-004	94.8744
NaturalGas Mitigated	6.9000e-004	6.2700e-003	5.2700e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8242	6.8242	1.3000e-004	1.3000e-004	6.8658
NaturalGas Unmitigated	6.9000e-004	6.2700e-003	5.2700e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8242	6.8242	1.3000e-004	1.3000e-004	6.8658

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	119356	6.4000e-004	5.8500e-003	4.9100e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3693	6.3693	1.2000e-004	1.2000e-004	6.4080
General Office Building	8525.4	5.0000e-005	4.2000e-004	3.5000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4550	0.4550	1.0000e-005	1.0000e-005	0.4577
<b>Total</b>		<b>6.9000e-004</b>	<b>6.2700e-003</b>	<b>5.2600e-003</b>	<b>4.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>6.8242</b>	<b>6.8242</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>6.8658</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	8525.4	5.0000e-005	4.2000e-004	3.5000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4550	0.4550	1.0000e-005	1.0000e-005	0.4577
General Office Building	119356	6.4000e-004	5.8500e-003	4.9100e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3693	6.3693	1.2000e-004	1.2000e-004	6.4080
<b>Total</b>		<b>6.9000e-004</b>	<b>6.2700e-003</b>	<b>5.2600e-003</b>	<b>4.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>6.8242</b>	<b>6.8242</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>6.8658</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	11333.4	6.3123	1.5000e-004	3.0000e-005	6.3250
General Office Building	158668	88.3718	2.0900e-003	4.3000e-004	88.5495
<b>Total</b>		<b>94.6840</b>	<b>2.2400e-003</b>	<b>4.6000e-004</b>	<b>94.8744</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	11333.4	6.3123	1.5000e-004	3.0000e-005	6.3250
General Office Building	158668	88.3718	2.0900e-003	4.3000e-004	88.5495
<b>Total</b>		<b>94.6840</b>	<b>2.2400e-003</b>	<b>4.6000e-004</b>	<b>94.8744</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0559	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Unmitigated	0.0559	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
<b>Total</b>	<b>0.0559</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.1000e-004</b>



## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
<b>Total</b>	<b>0.0559</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.1000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.6271	0.0683	1.7100e-003	25.5912
Unmitigated	23.6271	0.0683	1.7100e-003	25.5922

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.07948 / 1.27452	23.6271	0.0683	1.7100e-003	25.5922
<b>Total</b>		<b>23.6271</b>	<b>0.0683</b>	<b>1.7100e-003</b>	<b>25.5922</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.07948 / 1.27452	23.6271	0.0683	1.7100e-003	25.5912
<b>Total</b>		<b>23.6271</b>	<b>0.0683</b>	<b>1.7100e-003</b>	<b>25.5912</b>

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.2085	0.1305	0.0000	4.9495
Unmitigated	2.2085	0.1305	0.0000	4.9495

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	10.88	2.2085	0.1305	0.0000	4.9495
<b>Total</b>		<b>2.2085</b>	<b>0.1305</b>	<b>0.0000</b>	<b>4.9495</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	10.88	2.2085	0.1305	0.0000	4.9495
<b>Total</b>		<b>2.2085</b>	<b>0.1305</b>	<b>0.0000</b>	<b>4.9495</b>

## 9.0 Operational Offroad

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

## AMC Existing Uses

### Los Angeles-South Coast County, Winter

### 1.0 Project Characteristics

---

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.78	1000sqft	0.02	780.00	0
General Office Building	10.92	1000sqft	0.25	10,920.00	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>	11			<b>Operational Year</b>	2016
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 Phase - Operations only.

Off-road Equipment -

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3061	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7100e-003
Energy	3.7800e-003	0.0344	0.0289	2.1000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003		41.2187	41.2187	7.9000e-004	7.6000e-004	41.4695
Mobile	0.5204	1.4752	5.7759	0.0128	0.8810	0.0206	0.9016	0.2356	0.0189	0.2545		1,130.2585	1,130.2585	0.0491		1,131.2899
<b>Total</b>	<b>0.8302</b>	<b>1.5096</b>	<b>5.8059</b>	<b>0.0130</b>	<b>0.8810</b>	<b>0.0232</b>	<b>0.9042</b>	<b>0.2356</b>	<b>0.0215</b>	<b>0.2571</b>		<b>1,171.4798</b>	<b>1,171.4798</b>	<b>0.0499</b>	<b>7.6000e-004</b>	<b>1,172.7621</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3061	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7100e-003
Energy	3.7800e-003	0.0344	0.0289	2.1000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003		41.2187	41.2187	7.9000e-004	7.6000e-004	41.4695
Mobile	0.5204	1.4752	5.7759	0.0128	0.8810	0.0206	0.9016	0.2356	0.0189	0.2545		1,130.2585	1,130.2585	0.0491		1,131.2899
<b>Total</b>	<b>0.8302</b>	<b>1.5096</b>	<b>5.8059</b>	<b>0.0130</b>	<b>0.8810</b>	<b>0.0232</b>	<b>0.9042</b>	<b>0.2356</b>	<b>0.0215</b>	<b>0.2571</b>		<b>1,171.4798</b>	<b>1,171.4798</b>	<b>0.0499</b>	<b>7.6000e-004</b>	<b>1,172.7621</b>

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5204	1.4752	5.7759	0.0128	0.8810	0.0206	0.9016	0.2356	0.0189	0.2545		1,130.2585	1,130.2585	0.0491		1,131.2899
Unmitigated	0.5204	1.4752	5.7759	0.0128	0.8810	0.0206	0.9016	0.2356	0.0189	0.2545		1,130.2585	1,130.2585	0.0491		1,131.2899

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	8.59	1.85	0.76	20,963	20,963
General Office Building	120.23	25.88	10.70	293,488	293,488
Total	128.82	27.73	11.47	314,451	314,451

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7800e-003	0.0344	0.0289	2.1000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003		41.2187	41.2187	7.9000e-004	7.6000e-004	41.4695
NaturalGas Unmitigated	3.7800e-003	0.0344	0.0289	2.1000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003		41.2187	41.2187	7.9000e-004	7.6000e-004	41.4695

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	23.3573	2.5000e-004	2.2900e-003	1.9200e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.7479	2.7479	5.0000e-005	5.0000e-005	2.7646
General Office Building	327.002	3.5300e-003	0.0321	0.0269	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003		38.4708	38.4708	7.4000e-004	7.1000e-004	38.7049
<b>Total</b>		<b>3.7800e-003</b>	<b>0.0344</b>	<b>0.0289</b>	<b>2.0000e-004</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>41.2187</b>	<b>41.2187</b>	<b>7.9000e-004</b>	<b>7.6000e-004</b>	<b>41.4696</b>



### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0233573	2.5000e-004	2.2900e-003	1.9200e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.7479	2.7479	5.0000e-005	5.0000e-005	2.7646
General Office Building	0.327002	3.5300e-003	0.0321	0.0269	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003		38.4708	38.4708	7.4000e-004	7.1000e-004	38.7049
<b>Total</b>		<b>3.7800e-003</b>	<b>0.0344</b>	<b>0.0289</b>	<b>2.0000e-004</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>41.2187</b>	<b>41.2187</b>	<b>7.9000e-004</b>	<b>7.6000e-004</b>	<b>41.4696</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3061	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7100e-003
Unmitigated	0.3061	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7100e-003

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0743					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2317					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7100e-003
<b>Total</b>	<b>0.3061</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>	<b>1.0000e-005</b>		<b>2.7100e-003</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	lb/day										lb/day					
Architectural Coating	0.0743					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2317					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7100e-003
<b>Total</b>	<b>0.3061</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>	<b>1.0000e-005</b>		<b>2.7100e-003</b>

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

**Operations Emissions Modeling**  
**Future Without Project**

**Future Without Project**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.78	1000sqft	0.02	780.00	0
General Office Building	10.92	1000sqft	0.25	10,920.00	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>	11			<b>Operational Year</b>	2035
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 Phase - Operations only.
- Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	1/14/2011	1/7/2011
tblConstructionPhase	PhaseEndDate	5/24/2011	5/20/2011
tblConstructionPhase	PhaseEndDate	1/13/2017	1/14/2011
tblConstructionPhase	PhaseEndDate	1/5/2011	1/4/2011
tblConstructionPhase	PhaseEndDate	5/27/2011	1/7/2011
tblConstructionPhase	PhaseEndDate	1/17/2011	1/3/2011
tblConstructionPhase	PhaseStartDate	1/8/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/5/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2017	1/2/2011
tblConstructionPhase	PhaseStartDate	1/4/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	5/21/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/15/2011	1/2/2011
tblProjectCharacteristics	OperationalYear	2014	2035

## 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	lb/day										lb/day					
Area	0.3061	1.0000e-005	1.1900e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7000e-003
Energy	3.7800e-003	0.0344	0.0289	2.1000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003		41.2187	41.2187	7.9000e-004	7.6000e-004	41.4695
Mobile	0.2710	0.6966	3.0512	0.0135	0.8841	0.0196	0.9037	0.2367	0.0181	0.2548		973.2051	973.2051	0.0263		973.7572
<b>Total</b>	<b>0.5809</b>	<b>0.7310</b>	<b>3.0812</b>	<b>0.0137</b>	<b>0.8841</b>	<b>0.0222</b>	<b>0.9063</b>	<b>0.2367</b>	<b>0.0207</b>	<b>0.2574</b>		<b>1,014.4263</b>	<b>1,014.4263</b>	<b>0.0271</b>	<b>7.6000e-004</b>	<b>1,015.2294</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3061	1.0000e-005	1.1900e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7000e-003
Energy	3.7800e-003	0.0344	0.0289	2.1000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003		41.2187	41.2187	7.9000e-004	7.6000e-004	41.4695
Mobile	0.2710	0.6966	3.0512	0.0135	0.8841	0.0196	0.9037	0.2367	0.0181	0.2548		973.2051	973.2051	0.0263		973.7572
<b>Total</b>	<b>0.5809</b>	<b>0.7310</b>	<b>3.0812</b>	<b>0.0137</b>	<b>0.8841</b>	<b>0.0222</b>	<b>0.9063</b>	<b>0.2367</b>	<b>0.0207</b>	<b>0.2574</b>		<b>1,014.4263</b>	<b>1,014.4263</b>	<b>0.0271</b>	<b>7.6000e-004</b>	<b>1,015.2294</b>

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2710	0.6966	3.0512	0.0135	0.8841	0.0196	0.9037	0.2367	0.0181	0.2548		973.2051	973.2051	0.0263		973.7572
Unmitigated	0.2710	0.6966	3.0512	0.0135	0.8841	0.0196	0.9037	0.2367	0.0181	0.2548		973.2051	973.2051	0.0263		973.7572

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	8.59	1.85	0.76	20,963	20,963
General Office Building	120.23	25.88	10.70	293,488	293,488
Total	128.82	27.73	11.47	314,451	314,451

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760



### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7800e-003	0.0344	0.0289	2.1000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003		41.2187	41.2187	7.9000e-004	7.6000e-004	41.4695
NaturalGas Unmitigated	3.7800e-003	0.0344	0.0289	2.1000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003		41.2187	41.2187	7.9000e-004	7.6000e-004	41.4695

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	23.3573	2.5000e-004	2.2900e-003	1.9200e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.7479	2.7479	5.0000e-005	5.0000e-005	2.7646
General Office Building	327.002	3.5300e-003	0.0321	0.0269	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003		38.4708	38.4708	7.4000e-004	7.1000e-004	38.7049
<b>Total</b>		<b>3.7800e-003</b>	<b>0.0344</b>	<b>0.0289</b>	<b>2.0000e-004</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>41.2187</b>	<b>41.2187</b>	<b>7.9000e-004</b>	<b>7.6000e-004</b>	<b>41.4696</b>

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0233573	2.5000e-004	2.2900e-003	1.9200e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.7479	2.7479	5.0000e-005	5.0000e-005	2.7646
General Office Building	0.327002	3.5300e-003	0.0321	0.0269	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003		38.4708	38.4708	7.4000e-004	7.1000e-004	38.7049
<b>Total</b>		<b>3.7800e-003</b>	<b>0.0344</b>	<b>0.0289</b>	<b>2.0000e-004</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>41.2187</b>	<b>41.2187</b>	<b>7.9000e-004</b>	<b>7.6000e-004</b>	<b>41.4696</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3061	1.0000e-005	1.1900e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7000e-003
Unmitigated	0.3061	1.0000e-005	1.1900e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7000e-003

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0743					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2317					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1900e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7000e-003
<b>Total</b>	<b>0.3061</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>	<b>1.0000e-005</b>		<b>2.7000e-003</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	lb/day										lb/day					
Architectural Coating	0.0743					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2317					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1900e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5600e-003	2.5600e-003	1.0000e-005		2.7000e-003
<b>Total</b>	<b>0.3061</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>	<b>1.0000e-005</b>		<b>2.7000e-003</b>

### 7.0 Water Detail

## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

**Future Without Project**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.78	1000sqft	0.02	780.00	0
General Office Building	10.92	1000sqft	0.25	10,920.00	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>	11			<b>Operational Year</b>	2035
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 Phase - Operations only.
- Off-road Equipment -

**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	0.0559	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Energy	6.9000e-004	6.2700e-003	5.2700e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	101.5082	101.5082	2.3700e-003	5.9000e-004	101.7402
Mobile	0.0356	0.0979	0.4189	1.8900e-003	0.1196	2.6900e-003	0.1223	0.0321	2.4800e-003	0.0346	0.0000	123.0173	123.0173	3.2800e-003	0.0000	123.0862
Waste						0.0000	0.0000		0.0000	0.0000	2.2085	0.0000	2.2085	0.1305	0.0000	4.9495
Water						0.0000	0.0000		0.0000	0.0000	0.6597	22.9674	23.6271	0.0683	1.7100e-003	25.5922
<b>Total</b>	<b>0.0921</b>	<b>0.1042</b>	<b>0.4244</b>	<b>1.9300e-003</b>	<b>0.1196</b>	<b>3.1700e-003</b>	<b>0.1228</b>	<b>0.0321</b>	<b>2.9600e-003</b>	<b>0.0350</b>	<b>2.8683</b>	<b>247.4932</b>	<b>250.3615</b>	<b>0.2045</b>	<b>2.3000e-003</b>	<b>255.3684</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0559	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Energy	6.9000e-004	6.2700e-003	5.2700e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	101.5082	101.5082	2.3700e-003	5.9000e-004	101.7402
Mobile	0.0356	0.0979	0.4189	1.8900e-003	0.1196	2.6900e-003	0.1223	0.0321	2.4800e-003	0.0346	0.0000	123.0173	123.0173	3.2800e-003	0.0000	123.0862
Waste						0.0000	0.0000		0.0000	0.0000	2.2085	0.0000	2.2085	0.1305	0.0000	4.9495
Water						0.0000	0.0000		0.0000	0.0000	0.6597	22.9674	23.6271	0.0683	1.7100e-003	25.5912
<b>Total</b>	<b>0.0921</b>	<b>0.1042</b>	<b>0.4244</b>	<b>1.9300e-003</b>	<b>0.1196</b>	<b>3.1700e-003</b>	<b>0.1228</b>	<b>0.0321</b>	<b>2.9600e-003</b>	<b>0.0350</b>	<b>2.8683</b>	<b>247.4932</b>	<b>250.3615</b>	<b>0.2045</b>	<b>2.3000e-003</b>	<b>255.3673</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 3.0 Construction Detail

### Construction Phase

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0356	0.0979	0.4189	1.8900e-003	0.1196	2.6900e-003	0.1223	0.0321	2.4800e-003	0.0346	0.0000	123.0173	123.0173	3.2800e-003	0.0000	123.0862
Unmitigated	0.0356	0.0979	0.4189	1.8900e-003	0.1196	2.6900e-003	0.1223	0.0321	2.4800e-003	0.0346	0.0000	123.0173	123.0173	3.2800e-003	0.0000	123.0862

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	8.59	1.85	0.76	20,963	20,963
General Office Building	120.23	25.88	10.70	293,488	293,488
Total	128.82	27.73	11.47	314,451	314,451

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760



### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.6840	94.6840	2.2400e-003	4.6000e-004	94.8744
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.6840	94.6840	2.2400e-003	4.6000e-004	94.8744
NaturalGas Mitigated	6.9000e-004	6.2700e-003	5.2700e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8242	6.8242	1.3000e-004	1.3000e-004	6.8658
NaturalGas Unmitigated	6.9000e-004	6.2700e-003	5.2700e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8242	6.8242	1.3000e-004	1.3000e-004	6.8658

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	119356	6.4000e-004	5.8500e-003	4.9100e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3693	6.3693	1.2000e-004	1.2000e-004	6.4080
General Office Building	8525.4	5.0000e-005	4.2000e-004	3.5000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4550	0.4550	1.0000e-005	1.0000e-005	0.4577
<b>Total</b>		<b>6.9000e-004</b>	<b>6.2700e-003</b>	<b>5.2600e-003</b>	<b>4.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>6.8242</b>	<b>6.8242</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>6.8658</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	8525.4	5.0000e-005	4.2000e-004	3.5000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4550	0.4550	1.0000e-005	1.0000e-005	0.4577
General Office Building	119356	6.4000e-004	5.8500e-003	4.9100e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3693	6.3693	1.2000e-004	1.2000e-004	6.4080
<b>Total</b>		<b>6.9000e-004</b>	<b>6.2700e-003</b>	<b>5.2600e-003</b>	<b>4.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>6.8242</b>	<b>6.8242</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>6.8658</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	11333.4	6.3123	1.5000e-004	3.0000e-005	6.3250
General Office Building	158668	88.3718	2.0900e-003	4.3000e-004	88.5495
<b>Total</b>		<b>94.6840</b>	<b>2.2400e-003</b>	<b>4.6000e-004</b>	<b>94.8744</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	11333.4	6.3123	1.5000e-004	3.0000e-005	6.3250
General Office Building	158668	88.3718	2.0900e-003	4.3000e-004	88.5495
<b>Total</b>		<b>94.6840</b>	<b>2.2400e-003</b>	<b>4.6000e-004</b>	<b>94.8744</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0559	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Unmitigated	0.0559	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
<b>Total</b>	<b>0.0559</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.1000e-004</b>

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
<b>Total</b>	<b>0.0559</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.1000e-004</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.6271	0.0683	1.7100e-003	25.5912
Unmitigated	23.6271	0.0683	1.7100e-003	25.5922

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.07948 / 1.27452	23.6271	0.0683	1.7100e-003	25.5922
<b>Total</b>		<b>23.6271</b>	<b>0.0683</b>	<b>1.7100e-003</b>	<b>25.5922</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.07948 / 1.27452	23.6271	0.0683	1.7100e-003	25.5912
<b>Total</b>		<b>23.6271</b>	<b>0.0683</b>	<b>1.7100e-003</b>	<b>25.5912</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.2085	0.1305	0.0000	4.9495
Unmitigated	2.2085	0.1305	0.0000	4.9495

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	10.88	2.2085	0.1305	0.0000	4.9495
<b>Total</b>		<b>2.2085</b>	<b>0.1305</b>	<b>0.0000</b>	<b>4.9495</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	10.88	2.2085	0.1305	0.0000	4.9495
<b>Total</b>		<b>2.2085</b>	<b>0.1305</b>	<b>0.0000</b>	<b>4.9495</b>

## 9.0 Operational Offroad

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---



**Operations Emissions Modeling  
Proposed Project**

**2035 AMC Building Operations**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	262.55	1000sqft	6.03	262,550.00	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>	11			<b>Operational Year</b>	2035
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Operations Only

Off-road Equipment -

Trips and VMT -

Grading -

Vehicle Trips - Trips accounted for in Transportation Analysis (F&P, 2016)

Area Coating - Supercompliant.

Energy Use - Project Specific Rates.

Water And Wastewater - Project Specific Data.

Solid Waste -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	10
tblAreaCoating	Area_EF_Nonresidential_Interior	250	10
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	10	250
tblConstructionPhase	PhaseEndDate	1/2/2017	1/3/2011
tblConstructionPhase	PhaseStartDate	1/1/2017	1/2/2011
tblEnergyUse	LightingElect	3.55	11.69
tblEnergyUse	NT24E	5.75	17.46
tblEnergyUse	NT24NG	4.45	10.27
tblEnergyUse	T24E	2.75	8.93
tblEnergyUse	T24NG	14.36	35.43
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	60,714,687.50	58,000,000.00

## 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	lb/day										lb/day					
Area	5.2676	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
Energy	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
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
<b>Total</b>	<b>5.6222</b>	<b>3.2235</b>	<b>2.7341</b>	<b>0.0193</b>	<b>0.0000</b>	<b>0.2451</b>	<b>0.2451</b>	<b>0.0000</b>	<b>0.2451</b>	<b>0.2451</b>		<b>3,867.9060</b>	<b>3,867.9060</b>	<b>0.0743</b>	<b>0.0709</b>	<b>3,891.4482</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.2676	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
Energy	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
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
<b>Total</b>	<b>5.6222</b>	<b>3.2235</b>	<b>2.7341</b>	<b>0.0193</b>	<b>0.0000</b>	<b>0.2451</b>	<b>0.2451</b>	<b>0.0000</b>	<b>0.2451</b>	<b>0.2451</b>		<b>3,867.9060</b>	<b>3,867.9060</b>	<b>0.0743</b>	<b>0.0709</b>	<b>3,891.4482</b>

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
NaturalGas Unmitigated	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	32876.7	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
<b>Total</b>		<b>0.3546</b>	<b>3.2232</b>	<b>2.7075</b>	<b>0.0193</b>		<b>0.2450</b>	<b>0.2450</b>		<b>0.2450</b>	<b>0.2450</b>		<b>3,867.8485</b>	<b>3,867.8485</b>	<b>0.0741</b>	<b>0.0709</b>	<b>3,891.3876</b>

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	32.8767	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
<b>Total</b>		<b>0.3546</b>	<b>3.2232</b>	<b>2.7075</b>	<b>0.0193</b>		<b>0.2450</b>	<b>0.2450</b>		<b>0.2450</b>	<b>0.2450</b>		<b>3,867.8485</b>	<b>3,867.8485</b>	<b>0.0741</b>	<b>0.0709</b>	<b>3,891.3876</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2676	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
Unmitigated	5.2676	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606



### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4400e-003	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
<b>Total</b>	<b>5.2676</b>	<b>2.4000e-004</b>	<b>0.0267</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0575</b>	<b>0.0575</b>	<b>1.5000e-004</b>		<b>0.0606</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	lb/day										lb/day					
Architectural Coating	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4400e-003	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
<b>Total</b>	<b>5.2676</b>	<b>2.4000e-004</b>	<b>0.0267</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0575</b>	<b>0.0575</b>	<b>1.5000e-004</b>		<b>0.0606</b>

### 7.0 Water Detail

## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

**2035 AMC Building Operations**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	262.55	1000sqft	6.03	262,550.00	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>	11			<b>Operational Year</b>	2035
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 Phase - Operations Only

Off-road Equipment -

Trips and VMT -

Grading -

Vehicle Trips - Trips accounted for in Transportation Analysis (F&P, 2016)

Area Coating - Supercompliant.

Energy Use - Project Specific Rates.

Water And Wastewater - Project Specific Data.

Solid Waste -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	10
tblAreaCoating	Area_EF_Nonresidential_Interior	250	10
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	10	250
tblConstructionPhase	PhaseEndDate	1/2/2017	1/3/2011
tblConstructionPhase	PhaseStartDate	1/1/2017	1/2/2011
tblEnergyUse	LightingElect	3.55	11.69
tblEnergyUse	NT24E	5.75	17.46
tblEnergyUse	NT24NG	4.45	10.27
tblEnergyUse	T24E	2.75	8.93
tblEnergyUse	T24NG	14.36	35.43
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	60,714,687.50	58,000,000.00

## 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	lb/day										lb/day					
Area	5.2676	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
Energy	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
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
<b>Total</b>	<b>5.6222</b>	<b>3.2235</b>	<b>2.7341</b>	<b>0.0193</b>	<b>0.0000</b>	<b>0.2451</b>	<b>0.2451</b>	<b>0.0000</b>	<b>0.2451</b>	<b>0.2451</b>		<b>3,867.9060</b>	<b>3,867.9060</b>	<b>0.0743</b>	<b>0.0709</b>	<b>3,891.4482</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.2676	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
Energy	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
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
<b>Total</b>	<b>5.6222</b>	<b>3.2235</b>	<b>2.7341</b>	<b>0.0193</b>	<b>0.0000</b>	<b>0.2451</b>	<b>0.2451</b>	<b>0.0000</b>	<b>0.2451</b>	<b>0.2451</b>		<b>3,867.9060</b>	<b>3,867.9060</b>	<b>0.0743</b>	<b>0.0709</b>	<b>3,891.4482</b>

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
NaturalGas Unmitigated	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	32876.7	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
<b>Total</b>		<b>0.3546</b>	<b>3.2232</b>	<b>2.7075</b>	<b>0.0193</b>		<b>0.2450</b>	<b>0.2450</b>		<b>0.2450</b>	<b>0.2450</b>		<b>3,867.8485</b>	<b>3,867.8485</b>	<b>0.0741</b>	<b>0.0709</b>	<b>3,891.3876</b>



### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	32.8767	0.3546	3.2232	2.7075	0.0193		0.2450	0.2450		0.2450	0.2450		3,867.8485	3,867.8485	0.0741	0.0709	3,891.3876
<b>Total</b>		<b>0.3546</b>	<b>3.2232</b>	<b>2.7075</b>	<b>0.0193</b>		<b>0.2450</b>	<b>0.2450</b>		<b>0.2450</b>	<b>0.2450</b>		<b>3,867.8485</b>	<b>3,867.8485</b>	<b>0.0741</b>	<b>0.0709</b>	<b>3,891.3876</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2676	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
Unmitigated	5.2676	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4400e-003	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
<b>Total</b>	<b>5.2676</b>	<b>2.4000e-004</b>	<b>0.0267</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0575</b>	<b>0.0575</b>	<b>1.5000e-004</b>		<b>0.0606</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	lb/day										lb/day					
Architectural Coating	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4400e-003	2.4000e-004	0.0267	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0575	0.0575	1.5000e-004		0.0606
<b>Total</b>	<b>5.2676</b>	<b>2.4000e-004</b>	<b>0.0267</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0575</b>	<b>0.0575</b>	<b>1.5000e-004</b>		<b>0.0606</b>

## 7.0 Water Detail

---

## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

**2035 AMC Building Operations**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	262.55	1000sqft	6.03	262,550.00	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>	11			<b>Operational Year</b>	2035
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<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 Phase - Operations Only

Off-road Equipment -

Trips and VMT -

Grading -

Vehicle Trips - Trips accounted for in Transportation Analysis (F&P, 2016)

Area Coating - Supercompliant.

Energy Use - Project Specific Rates.

Water And Wastewater - Project Specific Data.

Solid Waste -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	10
tblAreaCoating	Area_EF_Nonresidential_Interior	250	10
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	10	250
tblConstructionPhase	PhaseEndDate	1/2/2017	1/3/2011
tblConstructionPhase	PhaseStartDate	1/1/2017	1/2/2011
tblEnergyUse	LightingElect	3.55	11.69
tblEnergyUse	NT24E	5.75	17.46
tblEnergyUse	NT24NG	4.45	10.27
tblEnergyUse	T24E	2.75	8.93
tblEnergyUse	T24NG	14.36	35.43
tblProjectCharacteristics	OperationalYear	2014	2035
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	60,714,687.50	58,000,000.00

## 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	0.9612	3.0000e-005	3.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5200e-003	6.5200e-003	2.0000e-005	0.0000	6.8700e-003
Energy	0.0647	0.5882	0.4941	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	6,209.9811	6,209.9811	0.1438	0.0390	6,225.0774
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	66.0857	0.0000	66.0857	3.9056	0.0000	148.1024
Water						0.0000	0.0000		0.0000	0.0000	18.4007	420.6274	439.0281	1.8999	0.0467	493.3963
<b>Total</b>	<b>1.0259</b>	<b>0.5883</b>	<b>0.4975</b>	<b>3.5300e-003</b>	<b>0.0000</b>	<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>0.0447</b>	<b>0.0447</b>	<b>84.4865</b>	<b>6,630.6150</b>	<b>6,715.1014</b>	<b>5.9493</b>	<b>0.0856</b>	<b>6,866.5830</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9612	3.0000e-005	3.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5200e-003	6.5200e-003	2.0000e-005	0.0000	6.8700e-003
Energy	0.0647	0.5882	0.4941	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	6,209.9811	6,209.9811	0.1438	0.0390	6,225.0774
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	66.0857	0.0000	66.0857	3.9056	0.0000	148.1024
Water						0.0000	0.0000		0.0000	0.0000	18.4007	420.6274	439.0281	1.8995	0.0466	493.3669
<b>Total</b>	<b>1.0259</b>	<b>0.5883</b>	<b>0.4975</b>	<b>3.5300e-003</b>	<b>0.0000</b>	<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>0.0447</b>	<b>0.0447</b>	<b>84.4865</b>	<b>6,630.6150</b>	<b>6,715.1014</b>	<b>5.9489</b>	<b>0.0856</b>	<b>6,866.5536</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.08</b>	<b>0.00</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	Operations Only	Trenching	1/2/2011	1/3/2011	5	1	

Acres of Grading (Site Preparation Phase): 0



### 3.2 Operations Only - 2011

#### 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
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	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>0.0000</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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	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>0.0000</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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.491908	0.059855	0.185077	0.131229	0.044940	0.007356	0.019164	0.046757	0.003019	0.003347	0.004084	0.000506	0.002760

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,569.6154	5,569.6154	0.1315	0.0272	5,580.8146
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,569.6154	5,569.6154	0.1315	0.0272	5,580.8146
NaturalGas Mitigated	0.0647	0.5882	0.4941	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	640.3657	640.3657	0.0123	0.0117	644.2629
NaturalGas Unmitigated	0.0647	0.5882	0.4941	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	640.3657	640.3657	0.0123	0.0117	644.2629

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.2e+007	0.0647	0.5882	0.4941	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	640.3657	640.3657	0.0123	0.0117	644.2629
<b>Total</b>		<b>0.0647</b>	<b>0.5882</b>	<b>0.4941</b>	<b>3.5300e-003</b>		<b>0.0447</b>	<b>0.0447</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>640.3657</b>	<b>640.3657</b>	<b>0.0123</b>	<b>0.0117</b>	<b>644.2629</b>

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.2e+007	0.0647	0.5882	0.4941	3.5300e-003		0.0447	0.0447		0.0447	0.0447	0.0000	640.3657	640.3657	0.0123	0.0117	644.2629
<b>Total</b>		<b>0.0647</b>	<b>0.5882</b>	<b>0.4941</b>	<b>3.5300e-003</b>		<b>0.0447</b>	<b>0.0447</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>640.3657</b>	<b>640.3657</b>	<b>0.0123</b>	<b>0.0117</b>	<b>644.2629</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1e+007	5,569.6154	0.1315	0.0272	5,580.8146
<b>Total</b>		<b>5,569.6154</b>	<b>0.1315</b>	<b>0.0272</b>	<b>5,580.8146</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1e+007	5,569.6154	0.1315	0.0272	5,580.8146
<b>Total</b>		<b>5,569.6154</b>	<b>0.1315</b>	<b>0.0272</b>	<b>5,580.8146</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9612	3.0000e-005	3.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5200e-003	6.5200e-003	2.0000e-005	0.0000	6.8700e-003
Unmitigated	0.9612	3.0000e-005	3.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5200e-003	6.5200e-003	2.0000e-005	0.0000	6.8700e-003

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9487					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-004	3.0000e-005	3.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5200e-003	6.5200e-003	2.0000e-005	0.0000	6.8700e-003
<b>Total</b>	<b>0.9612</b>	<b>3.0000e-005</b>	<b>3.3300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.5200e-003</b>	<b>6.5200e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.8700e-003</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	0.0122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9487					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-004	3.0000e-005	3.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.5200e-003	6.5200e-003	2.0000e-005	0.0000	6.8700e-003
<b>Total</b>	<b>0.9612</b>	<b>3.0000e-005</b>	<b>3.3300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.5200e-003</b>	<b>6.5200e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.8700e-003</b>

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	439.0281	1.8995	0.0466	493.3669
Unmitigated	439.0281	1.8999	0.0467	493.3963

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	58 / 0	439.0281	1.8999	0.0467	493.3963
<b>Total</b>		<b>439.0281</b>	<b>1.8999</b>	<b>0.0467</b>	<b>493.3963</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	58 / 0	439.0281	1.8995	0.0466	493.3669
<b>Total</b>		<b>439.0281</b>	<b>1.8995</b>	<b>0.0466</b>	<b>493.3669</b>

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	66.0857	3.9056	0.0000	148.1024
Mitigated	66.0857	3.9056	0.0000	148.1024



## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	325.56	66.0857	3.9056	0.0000	148.1024
<b>Total</b>		<b>66.0857</b>	<b>3.9056</b>	<b>0.0000</b>	<b>148.1024</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	325.56	66.0857	3.9056	0.0000	148.1024
<b>Total</b>		<b>66.0857</b>	<b>3.9056</b>	<b>0.0000</b>	<b>148.1024</b>

## 9.0 Operational Offroad

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

## **10.0 Vegetation**

---

# **Mobile Source Emissions Modeling**

## **Air Quality**

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate	vmt5		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	25	CO	0.324317453	0.227227315	0.259207956	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	25	CO	0.288102628	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	25	CO	0.270558123	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	25	CO	0.161028965	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	30	CO	0.24972086	0.227227315	0.223094997	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	30	CO	0.21858499	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	30	CO	0.249073689	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	30	CO	0.148242004	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	35	CO	0.202937831	0.227227315	0.197096507	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	35	CO	0.174692785	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	35	CO	0.229915652	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	35	CO	0.136839653	0.230373988		g/mi
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	40	CO	0.171946146	0.227227315	0.177227216	0.186546028
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	40	CO	0.144948705	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	40	CO	0.212805094	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	40	CO	0.126655906	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	45	CO	0.150993448	0.227227315	0.161512463	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	45	CO	0.123812166	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	45	CO	0.197500519	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	45	CO	0.117547032	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	50	CO	0.137177017	0.227227315	0.14889082	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	50	CO	0.108344397	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	50	CO	0.183792115	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	50	CO	0.109388156	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	55	CO	0.129142858	0.227227315	0.13879224	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	55	CO	0.096905695	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	55	CO	0.171497511	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	55	CO	0.102070736	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	25	NOx	0.243763746	0.227227315	0.113523397	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	25	NOx	0.105451463	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	25	NOx	0.085879852	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	25	NOx	0.042074998	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	30	NOx	0.23831081	0.227227315	0.107710015	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	30	NOx	0.0946014	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	30	NOx	0.079555133	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	30	NOx	0.038976337	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	35	NOx	0.237315668	0.227227315	0.10422596	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	35	NOx	0.087849139	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	35	NOx	0.074885125	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	35	NOx	0.036688366	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	40	NOx	0.238921659	0.227227315	0.102348469	0.104958267
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	40	NOx	0.083464893	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	40	NOx	0.071626132	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	40	NOx	0.035091693	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	45	NOx	0.24217879	0.227227315	0.101686118	
2035	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	45	NOx	0.080569054	0.095010612		
2035	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	45	NOx	0.069613968	0.447388084		
2035	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	45	NOx	0.034105876	0.230373988		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	50	NOx	0.246543433	0.227227315	0.102012872	

2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 NOx	0.078667096	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 NOx	0.068749529	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 NOx	0.033682363	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 NOx	0.251681913	0.227227315	0.10320104
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 NOx	0.077460167	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 NOx	0.068990912	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 NOx	0.033800623	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	25 PM10	0.010317314	0.227227315	0.00443301
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	25 PM10	0.010315575	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	25 PM10	0.00163472	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	25 PM10	0.001637298	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	30 PM10	0.009057695	0.227227315	0.003788897
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	30 PM10	0.009123315	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	30 PM10	0.001273997	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	30 PM10	0.001276006	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	35 PM10	0.008148062	0.227227315	0.003344732
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	35 PM10	0.008240915	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	35 PM10	0.00104744	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	35 PM10	0.001049092	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	40 PM10	0.007470859	0.227227315	0.003031859 0.003235821
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	40 PM10	0.007559145	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	40 PM10	0.0009085	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	40 PM10	0.000909932	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	45 PM10	0.006960015	0.227227315	0.002811858
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	45 PM10	0.007016383	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	45 PM10	0.000831294	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	45 PM10	0.000832605	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	50 PM10	0.006577684	0.227227315	0.002663532
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 PM10	0.006575452	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 PM10	0.000802454	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 PM10	0.000803719	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 PM10	0.006303795	0.227227315	0.00257686
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 PM10	0.006213119	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 PM10	0.000817185	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 PM10	0.000818473	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	25 PM2_5	0.009870992	0.227227315	0.004199916
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	25 PM2_5	0.009869328	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	25 PM2_5	0.001503065	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	25 PM2_5	0.001505435	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	30 PM2_5	0.008665863	0.227227315	0.003592786
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	30 PM2_5	0.008728645	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	30 PM2_5	0.001171393	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	30 PM2_5	0.00117324	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	35 PM2_5	0.00779558	0.227227315	0.003173563
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	35 PM2_5	0.007884417	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	35 PM2_5	0.000963082	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	35 PM2_5	0.000964601	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	40 PM2_5	0.007147673	0.227227315	0.002877736 0.003069423
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	40 PM2_5	0.00723214	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	40 PM2_5	0.000835332	0.447388084	

2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	40 PM2_5	0.000836649	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	45 PM2_5	0.006658928	0.227227315	0.002669204
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	45 PM2_5	0.006712857	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	45 PM2_5	0.000764345	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	45 PM2_5	0.00076555	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	50 PM2_5	0.006293136	0.227227315	0.002528023
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 PM2_5	0.006291001	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 PM2_5	0.000737827	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 PM2_5	0.00073899	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 PM2_5	0.006031096	0.227227315	0.002444729
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 PM2_5	0.005944342	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 PM2_5	0.000751371	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 PM2_5	0.000752556	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	25 ROG	0.070145623	0.227227315	0.027732686
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	25 ROG	0.064575807	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	25 ROG	0.009915534	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	25 ROG	0.005305313	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	30 ROG	0.053616645	0.227227315	0.021238988
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	30 ROG	0.048900883	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	30 ROG	0.007727539	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	30 ROG	0.004134624	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	35 ROG	0.043152712	0.227227315	0.017134889
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	35 ROG	0.03898389	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	35 ROG	0.006353338	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	35 ROG	0.003399357	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	40 ROG	0.036092095	0.227227315	0.014408516
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	40 ROG	0.03223632	0.095010612	0.016416642
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	40 ROG	0.005510584	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	40 ROG	0.002948441	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	45 ROG	0.03113757	0.227227315	0.01255634
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	45 ROG	0.027403811	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	45 ROG	0.005042289	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	45 ROG	0.00269788	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	50 ROG	0.027599127	0.227227315	0.011311389
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 ROG	0.023813751	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 ROG	0.004867354	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 ROG	0.002604281	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 ROG	0.025095548	0.227227315	0.010533686
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 ROG	0.021079224	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 ROG	0.004956704	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 ROG	0.002652087	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	25 SOx	0.004513086	0.227227315	0.006510224
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	25 SOx	0.005120496	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	25 SOx	0.007084611	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	25 SOx	0.007937771	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	30 SOx	0.00409837	0.227227315	0.005899421
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	30 SOx	0.004617871	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	30 SOx	0.006429732	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	30 SOx	0.007174538	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	35 SOx	0.00409837	0.227227315	0.005899212

2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	35 SOx	0.004617871	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	35 SOx	0.006429373	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	35 SOx	0.007174328	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	40 SOx	0.003986172	0.227227315	0.00580897	0.006018206
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	40 SOx	0.004449204	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	40 SOx	0.006404919	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	40 SOx	0.007010323	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	45 SOx	0.003888197	0.227227315	0.005718971	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	45 SOx	0.004276778	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	45 SOx	0.006375263	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	45 SOx	0.006845003	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	50 SOx	0.004076255	0.227227315	0.005999169	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 SOx	0.004434299	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 SOx	0.006722784	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 SOx	0.007135933	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 SOx	0.004259542	0.227227315	0.006291472	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 SOx	0.004589713	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 SOx	0.007082846	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 SOx	0.007460632	0.230373988		

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	PMBW	PM10	0.07644	0.227227315	0.0805854			
2035 Annual	Los Angeles (SC)	LHD2	Dsl	PMBW	PM10	0.08918	0.095010612		PM10 (g/mi)		
2035 Annual	Los Angeles (SC)	LHD1	Gas	PMBW	PM10	0.07644	0.447388084	0.089874352			
2035 Annual	Los Angeles (SC)	LHD2	Gas	PMBW	PM10	0.08918	0.230373988				
2035 Annual	Los Angeles (SC)	LHD1	Dsl	PMTW	PM10	0.012	0.227227315	0.009288952			
2035 Annual	Los Angeles (SC)	LHD2	Dsl	PMTW	PM10	0.012	0.095010612				
2035 Annual	Los Angeles (SC)	LHD1	Gas	PMTW	PM10	0.008	0.447388084				
2035 Annual	Los Angeles (SC)	LHD2	Gas	PMTW	PM10	0.008	0.230373988				
2035 Annual	Los Angeles (SC)	LHD1	Dsl	PMBW	PM2_5	0.03276	0.227227315	0.0345366			
2035 Annual	Los Angeles (SC)	LHD2	Dsl	PMBW	PM2_5	0.03822	0.095010612		PM2.5 (g/mi)		
2035 Annual	Los Angeles (SC)	LHD1	Gas	PMBW	PM2_5	0.03276	0.447388084	0.036858838			
2035 Annual	Los Angeles (SC)	LHD2	Gas	PMBW	PM2_5	0.03822	0.230373988				
2035 Annual	Los Angeles (SC)	LHD1	Dsl	PMTW	PM2_5	0.003	0.227227315	0.002322238			
2035 Annual	Los Angeles (SC)	LHD2	Dsl	PMTW	PM2_5	0.003	0.095010612				
2035 Annual	Los Angeles (SC)	LHD1	Gas	PMTW	PM2_5	0.002	0.447388084				
2035 Annual	Los Angeles (SC)	LHD2	Gas	PMTW	PM2_5	0.002	0.230373988				

VOC	NOX	CO	SOX	PM10	PM25
0.016416642	0.104958267	0.186546028	0.006018206	0.003235821	0.003069423
				0.089874352	0.036858838

0.016416642	0.104958267	0.186546028	0.006018206	0.093110173	0.03992826
-------------	-------------	-------------	-------------	-------------	------------

lb.day					
0.018095946	0.115694739	0.205628338	0.006633824	0.10263467	0.044012633

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate	vmt%	weighted avg EF	Average EF
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	25	CO	0.632149867	0.486714142	1.253105821	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	25	CO	0.520311592	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	25	CO	2.485229808	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	25	CO	1.518216998	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	30	CO	0.539843372	0.486714142	1.10734963	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	30	CO	0.44004633	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	30	CO	2.22417472	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	30	CO	1.367654985	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	35	CO	0.486762403	0.486714142	1.013955802	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	35	CO	0.393277743	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	35	CO	2.049438242	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	35	CO	1.260735504	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	40	CO	0.462499605	0.486714142	0.961034956	1.038462645
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	40	CO	0.370387385	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	40	CO	1.944061571	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	40	CO	1.189113209	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	45	CO	0.462874885	0.486714142	0.943897847	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	45	CO	0.367366579	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	45	CO	1.901593973	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	45	CO	1.149439672	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	50	CO	0.488113066	0.486714142	0.963457277	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	50	CO	0.383925126	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	50	CO	1.924586602	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	50	CO	1.142646665	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	55	CO	0.542710735	0.486714142	1.026437178	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	55	CO	0.423187614	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	55	CO	2.02549213	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	55	CO	1.174364394	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	25	NOx	2.614020277	0.486714142	1.6521052	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	25	NOx	2.010657323	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	25	NOx	0.447601671	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	25	NOx	0.346813488	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	30	NOx	2.716835733	0.486714142	1.701044565	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	30	NOx	2.081926013	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	30	NOx	0.42613524	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	30	NOx	0.327187771	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	35	NOx	2.826247145	0.486714142	1.756592125	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	35	NOx	2.160264851	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	35	NOx	0.411515078	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	35	NOx	0.313329554	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	40	NOx	2.939945339	0.486714142	1.816957972	1.824902741
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	40	NOx	2.243044832	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	40	NOx	0.402733235	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	40	NOx	0.304389604	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	45	NOx	3.056644981	0.486714142	1.881103513	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	45	NOx	2.328845968	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	45	NOx	0.399107868	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	45	NOx	0.299794346	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	65		71 RUNEX	50	NOx	3.175442897	0.486714142	1.948329641	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	65		71 RUNEX	50	NOx	2.416734848	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	65		71 RUNEX	50	NOx	0.400220856	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	65		71 RUNEX	50	NOx	0.299194193	0.129414069		



2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 NOx	3.295695775	0.486714142	2.018186168
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 NOx	2.506074445	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 NOx	0.405889476	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 NOx	0.30243828	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	25 PM10	0.030898145	0.486714142	0.018707576
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	25 PM10	0.026477553	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	25 PM10	0.002412153	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	25 PM10	0.001789539	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	30 PM10	0.026085517	0.486714142	0.015755226
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	30 PM10	0.022444075	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	30 PM10	0.001911781	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	30 PM10	0.001409494	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	35 PM10	0.022941799	0.486714142	0.013828726
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	35 PM10	0.01978667	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	35 PM10	0.001596485	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	35 PM10	0.001170322	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	40 PM10	0.020986255	0.486714142	0.012628777
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	40 PM10	0.018104587	0.104359922	0.013841728
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	40 PM10	0.001404339	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	40 PM10	0.00102421	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	45 PM10	0.019952242	0.486714142	0.011989324
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	45 PM10	0.017175324	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	45 PM10	0.001300937	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	45 PM10	0.000944587	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	50 PM10	0.01971615	0.486714142	0.011832633
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 PM10	0.016893849	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 PM10	0.0012689	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 PM10	0.000917909	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 PM10	0.020266941	0.486714142	0.012149832
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 PM10	0.017246428	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 PM10	0.001302895	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 PM10	0.000939737	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	25 PM2_5	0.029561505	0.486714142	0.017865739
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	25 PM2_5	0.025332145	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	25 PM2_5	0.002221823	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	25 PM2_5	0.001646263	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	30 PM2_5	0.024957069	0.486714142	0.015047952
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	30 PM2_5	0.021473154	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	30 PM2_5	0.001761098	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	30 PM2_5	0.001296685	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	35 PM2_5	0.021949347	0.486714142	0.013209104
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	35 PM2_5	0.018930707	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	35 PM2_5	0.00147078	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	35 PM2_5	0.001076686	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	40 PM2_5	0.020078399	0.486714142	0.012063695
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	40 PM2_5	0.017321391	0.104359922	0.01322152
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	40 PM2_5	0.001293862	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	40 PM2_5	0.000942289	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	45 PM2_5	0.019089117	0.486714142	0.011453331
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	45 PM2_5	0.016432327	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	45 PM2_5	0.001198674	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	45 PM2_5	0.000869053	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	50 PM2_5	0.018863238	0.486714142	0.011303881

2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 PM2_5	0.016163028	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 PM2_5	0.00116922	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 PM2_5	0.000844524	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 PM2_5	0.019390202	0.486714142	0.011606936
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 PM2_5	0.016500355	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 PM2_5	0.001200596	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 PM2_5	0.000864621	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	25 ROG	0.140958864	0.486714142	0.122974359
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	25 ROG	0.120693717	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	25 ROG	0.117282646	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	25 ROG	0.069468553	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	30 ROG	0.115125441	0.486714142	0.100079241
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	30 ROG	0.097723115	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	30 ROG	0.095230599	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	30 ROG	0.055864106	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	35 ROG	0.098670255	0.486714142	0.085526094
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	35 ROG	0.083106431	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	35 ROG	0.08125695	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	35 ROG	0.047263973	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	40 ROG	0.088468848	0.486714142	0.076572764 0.085646671
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	40 ROG	0.073911923	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	40 ROG	0.072833099	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	40 ROG	0.042055451	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	45 ROG	0.082882933	0.486714142	0.071755895
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	45 ROG	0.068625163	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	45 ROG	0.068556323	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	45 ROG	0.039343303	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	50 ROG	0.081128029	0.486714142	0.070369967
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 ROG	0.066505026	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 ROG	0.067749462	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 ROG	0.038686447	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 ROG	0.083017274	0.486714142	0.072248374
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 ROG	0.067324731	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 ROG	0.070277287	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 ROG	0.039975199	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	25 SOx	0.005119643	0.486714142	0.006365453
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	25 SOx	0.005838864	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	25 SOx	0.007671061	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	25 SOx	0.008655583	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	30 SOx	0.004649189	0.486714142	0.005770441
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	30 SOx	0.005265724	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	30 SOx	0.00696101	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	30 SOx	0.00782295	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	35 SOx	0.004649189	0.486714142	0.005769248
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	35 SOx	0.005265724	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	35 SOx	0.006957686	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	35 SOx	0.007820909	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	40 SOx	0.004521912	0.486714142	0.005656168 0.005859966
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	40 SOx	0.005073395	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	40 SOx	0.006929665	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	40 SOx	0.007641414	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	45 SOx	0.004410769	0.486714142	0.005549127
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	45 SOx	0.004876778	0.104359922	

2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	45 SOx	0.006897151	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	45 SOx	0.007461069	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	50 SOx	0.004624102	0.486714142	0.00581745
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	50 SOx	0.005056398	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	50 SOx	0.0072721	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	50 SOx	0.007777447	0.129414069	
2016 Annual	Los Angeles (SC)	LHD1	Dsl	65	71 RUNEX	55 SOx	0.004832022	0.486714142	0.006091874
2016 Annual	Los Angeles (SC)	LHD2	Dsl	65	71 RUNEX	55 SOx	0.005233616	0.104359922	
2016 Annual	Los Angeles (SC)	LHD1	Gas	65	71 RUNEX	55 SOx	0.007661884	0.279511867	
2016 Annual	Los Angeles (SC)	LHD2	Gas	65	71 RUNEX	55 SOx	0.008131211	0.129414069	

vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate	vmt%	weighted avg EF	total EF
LHD1	Dsl			PMBW		PM10	0.07644	0.486714142	0.079418281	
LHD2	Dsl			PMBW		PM10	0.08918	0.104359922		PM10 (g/mi)
LHD1	Gas			PMBW		PM10	0.07644	0.279511867		0.089782577
LHD2	Gas			PMBW		PM10	0.08918	0.129414069		
LHD1	Dsl			PMTW		PM10	0.012	0.486714142	0.010364296	
LHD2	Dsl			PMTW		PM10	0.012	0.104359922		
LHD1	Gas			PMTW		PM10	0.008	0.279511867		
LHD2	Gas			PMTW		PM10	0.008	0.129414069		
LHD1	Dsl			PMBW		PM2_5	0.03276	0.486714142	0.034036406	
LHD2	Dsl			PMBW		PM2_5	0.03822	0.104359922		PM2.5 (g/mi)
LHD1	Gas			PMBW		PM2_5	0.03276	0.279511867		0.03662748
LHD2	Gas			PMBW		PM2_5	0.03822	0.129414069		
LHD1	Dsl			PMTW		PM2_5	0.003	0.486714142	0.002591074	
LHD2	Dsl			PMTW		PM2_5	0.003	0.104359922		
LHD1	Gas			PMTW		PM2_5	0.002	0.279511867		
LHD2	Gas			PMTW		PM2_5	0.002	0.129414069		
VOC	Nox	Co	SOx	PM10	PM2.5					
0.085646671	1.824902741	1.038462645	0.005859966	0.013841728	0.01322152					
				0.089782577	0.03662748					
VOC	Nox	Co	SOx	PM10	PM2.5					
0.085646671	1.824902741	1.038462645	0.005859966	0.103624305	0.049849					
<b>lb/day</b>	<b>lb/day</b>	<b>lb/day</b>	<b>lb/day</b>	<b>lb/day</b>	<b>lb/day</b>					
<b>0.094407706</b>	<b>2.011577095</b>	<b>1.144689864</b>	<b>0.006459398</b>	<b>0.114224322</b>	<b>0.054948192</b>					

calendar_year	season_month	sub_area	vehicle_class	temperature	relative_humidity	process	speed_time	pollutant	emission_rate		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	25 CO		0.359664656		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	30 CO		0.330556096		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	35 CO		0.304817629		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	40 CO		0.281959782	0.283111297	0.69
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	45 CO		0.261601781		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	50 CO		0.243431918		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	65 CO		0.199747214		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	25 CO		0.573911446		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	30 CO		0.527283948		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	35 CO		0.486176053		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	40 CO		0.449854951	0.452291704	0.05
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	45 CO		0.41771098		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	50 CO		0.389233773		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	65 CO		0.321870777		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	25 CO		0.544421501		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	30 CO		0.500856549		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	35 CO		0.462152859		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	40 CO		0.427696515	0.429290239	0.29
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	45 CO		0.396969127		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	50 CO		0.36952798		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	65 CO		0.303407146		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	25 NOx		0.020970518		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	30 NOx		0.019407732		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	35 NOx		0.018258982		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	40 NOx		0.017460802	0.018238194	
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	45 NOx		0.016971373		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	50 NOx		0.016765997		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	65 NOx		0.017831955		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	25 NOx		0.036490891		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	30 NOx		0.033744787		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	35 NOx		0.031753821		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	40 NOx		0.030404241	0.031895368	
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	45 NOx		0.029623391		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	50 NOx		0.029372517		
2035 Annual		Los Angeles (SC)	LDT1	65		71 RUNEX	65 NOx		0.031877926		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	25 NOx		0.032278942		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	30 NOx		0.029867343		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	35 NOx		0.02810256		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	40 NOx		0.026887092	0.028129083	
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	45 NOx		0.026157207		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	50 NOx		0.025876602		
2035 Annual		Los Angeles (SC)	LDT2	65		71 RUNEX	65 NOx		0.027733834		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	25 PM10		0.001271575		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	30 PM10		0.000992965		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	35 PM10		0.000817701		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	40 PM10		0.00070994	0.000834569	
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	45 PM10		0.000649745		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	50 PM10		0.000626803		
2035 Annual		Los Angeles (SC)	LDA	65		71 RUNEX	65 PM10		0.000773251		

CO (g/mi)

0.342455549

Nox (g/mi)

0.022336556

2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	25 PM10	0.001724289		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	30 PM10	0.001346039		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	35 PM10	0.001107902		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	40 PM10	0.000961404	0.001130483	PM10 (g/mi)
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	45 PM10	0.000879537		0.000921592
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	50 PM10	0.000848301		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	65 PM10	0.001045908		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	25 PM10	0.001520805		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	30 PM10	0.001186864		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	35 PM10	0.000976856		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	40 PM10	0.000847806	0.000997297	
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	45 PM10	0.000775806		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	50 PM10	0.000748489		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	65 PM10	0.00092445		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	25 PM2_5	0.001169803		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	30 PM2_5	0.000913557		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	35 PM2_5	0.000752353		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	40 PM2_5	0.000653229	0.000767839	
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	45 PM2_5	0.000597849		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	50 PM2_5	0.000576728		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	65 PM2_5	0.000711355		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	25 PM2_5	0.001585659		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	30 PM2_5	0.001237839		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	35 PM2_5	0.001018858		PM2.5 (g/mi)
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	40 PM2_5	0.000884143	0.00103962	0.000847812
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	45 PM2_5	0.000808859		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	50 PM2_5	0.000780134		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	65 PM2_5	0.000961846		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	25 PM2_5	0.00139877		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	30 PM2_5	0.001091673		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	35 PM2_5	0.00089854		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	40 PM2_5	0.000779854	0.000917317	
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	45 PM2_5	0.000713629		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	50 PM2_5	0.000688492		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	65 PM2_5	0.000850259		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	25 ROG	0.005765844		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	30 ROG	0.004496991		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	35 ROG	0.003698304		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	40 ROG	0.003206243	0.003769834	
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	45 ROG	0.002929951		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	50 ROG	0.002822305		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	65 ROG	0.0034692		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	25 ROG	0.010904183		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	30 ROG	0.00854636		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	35 ROG	0.007050747		VOC
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	40 ROG	0.006121655	0.007158249	0.004643071
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	45 ROG	0.005593135		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	50 ROG	0.005378088		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	65 ROG	0.006513575		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	25 ROG	0.008866925		

2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	30 ROG	0.006922098		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	35 ROG	0.005696623		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	40 ROG	0.004941409	0.005806805	
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	45 ROG	0.00451768		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	50 ROG	0.004353356		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	65 ROG	0.005349547		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	25 SOx	0.00205653		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	30 SOx	0.00177058		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	35 SOx	0.001582127		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	40 SOx	0.001467124	0.001636194	
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	45 SOx	0.001411804		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	50 SOx	0.001409936		
2035 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	65 SOx	0.001755254		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	25 SOx	0.00270048		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	30 SOx	0.002324892		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	35 SOx	0.002077177		SOx
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	40 SOx	0.001925964	0.002147865	0.001829105
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	45 SOx	0.001853213		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	50 SOx	0.001850598		
2035 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	65 SOx	0.002302732		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	25 SOx	0.002569693		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	30 SOx	0.002212327		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	35 SOx	0.001976651		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	40 SOx	0.001832782	0.002043926	
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	45 SOx	0.001763557		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	50 SOx	0.001761074		
2035 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	65 SOx	0.002191399		

	EF (g/mi	mi/day	lb/day
VOC	0.004643071	1546	0.016
NOX	0.022336556	1546	0.076
CO	0.342455549	1546	1.167
SOX	0.001829105	1546	0.006
PM10	0.045671592	1546	0.156
PM2.5	0.018597812	1546	0.063

0.04475

0.01775

calendar_year	season_month	sub_area	vehicle_class	speed_time	pollutant	emission_rate	VMT%	65 mph EF
2035	Annual	Imperial (SS)	LDA	65	CO	0.940255543	0.0098772	0.234740232
2035	Annual	Imperial (SS)	LDT1	65	CO	0.340923755	0.0005216	
2035	Annual	Imperial (SS)	LDT2	65	CO	0.329610013	0.002941	
2035	Annual	Los Angeles (MD)	LDA	65	CO	0.216017219	0.010218	
2035	Annual	Los Angeles (MD)	LDT1	65	CO	0.382323169	0.0004925	
2035	Annual	Los Angeles (MD)	LDT2	65	CO	0.306741569	0.0023178	
2035	Annual	Los Angeles (SC)	LDA	65	CO	0.199747214	0.321664	
2035	Annual	Los Angeles (SC)	LDT1	65	CO	0.321870777	0.0263991	
2035	Annual	Los Angeles (SC)	LDT2	65	CO	0.303407146	0.1273252	
2035	Annual	Orange (SC)	LDA	65	CO	0.186186354	0.1170813	
2035	Annual	Orange (SC)	LDT1	65	CO	0.274628422	0.0086762	
2035	Annual	Orange (SC)	LDT2	65	CO	0.28065302	0.0428934	
2035	Annual	Riverside (MD/MDAQMD)	LDA	65	CO	0.216110967	0.0025275	
2035	Annual	Riverside (MD/MDAQMD)	LDT1	65	CO	0.353000232	0.0001566	
2035	Annual	Riverside (MD/MDAQMD)	LDT2	65	CO	0.333334554	0.0008627	
2035	Annual	Riverside (MD/SCAQMD)	LDA	65	CO	0.220587787	0.0023371	
2035	Annual	Riverside (MD/SCAQMD)	LDT1	65	CO	0.348893723	0.0001492	
2035	Annual	Riverside (MD/SCAQMD)	LDT2	65	CO	0.339815111	0.000808	
2035	Annual	Riverside (SC)	LDA	65	CO	0.194545451	0.0769103	
2035	Annual	Riverside (SC)	LDT1	65	CO	0.285155565	0.0043232	
2035	Annual	Riverside (SC)	LDT2	65	CO	0.286729831	0.0246088	
2035	Annual	Riverside (SS)	LDA	65	CO	0.1825107	0.0167623	
2035	Annual	Riverside (SS)	LDT1	65	CO	0.289934529	0.0012667	
2035	Annual	Riverside (SS)	LDT2	65	CO	0.292474309	0.0071877	
2035	Annual	San Bernardino (MD)	LDA	65	CO	0.202504318	0.0440962	
2035	Annual	San Bernardino (MD)	LDT1	65	CO	0.310859035	0.0024902	
2035	Annual	San Bernardino (MD)	LDT2	65	CO	0.306407017	0.0138058	
2035	Annual	San Bernardino (SC)	LDA	65	CO	0.194059596	0.0632289	
2035	Annual	San Bernardino (SC)	LDT1	65	CO	0.306307964	0.0037252	
2035	Annual	San Bernardino (SC)	LDT2	65	CO	0.298701853	0.0210135	
2035	Annual	Ventura (SCC)	LDA	65	CO	0.194925654	0.0316989	
2035	Annual	Ventura (SCC)	LDT1	65	CO	0.290475906	0.0019668	
2035	Annual	Ventura (SCC)	LDT2	65	CO	0.280950133	0.0096671	
2035	Annual	Imperial (SS)	LDA	65	NOx	0.172494168	0.0098772	0.022141569
2035	Annual	Imperial (SS)	LDT1	65	NOx	0.037894485	0.0005216	
2035	Annual	Imperial (SS)	LDT2	65	NOx	0.032891006	0.002941	
2035	Annual	Los Angeles (MD)	LDA	65	NOx	0.019255405	0.010218	
2035	Annual	Los Angeles (MD)	LDT1	65	NOx	0.040272666	0.0004925	

2035 Annual	Los Angeles (MD)	LDT2	65 NOx	0.028937314	0.0023178	
2035 Annual	Los Angeles (SC)	LDA	65 NOx	0.017831955	0.321664	
2035 Annual	Los Angeles (SC)	LDT1	65 NOx	0.031877926	0.0263991	
2035 Annual	Los Angeles (SC)	LDT2	65 NOx	0.027733834	0.1273252	
2035 Annual	Orange (SC)	LDA	65 NOx	0.016573172	0.1170813	
2035 Annual	Orange (SC)	LDT1	65 NOx	0.026303056	0.0086762	
2035 Annual	Orange (SC)	LDT2	65 NOx	0.024426856	0.0428934	
2035 Annual	Riverside (MD/MDAQMD)	LDA	65 NOx	0.020761176	0.0025275	
2035 Annual	Riverside (MD/MDAQMD)	LDT1	65 NOx	0.039729531	0.0001566	
2035 Annual	Riverside (MD/MDAQMD)	LDT2	65 NOx	0.033371812	0.0008627	
2035 Annual	Riverside (MD/SCAQMD)	LDA	65 NOx	0.02117434	0.0023371	
2035 Annual	Riverside (MD/SCAQMD)	LDT1	65 NOx	0.038722932	0.0001492	
2035 Annual	Riverside (MD/SCAQMD)	LDT2	65 NOx	0.03437075	0.000808	
2035 Annual	Riverside (SC)	LDA	65 NOx	0.017256966	0.0769103	
2035 Annual	Riverside (SC)	LDT1	65 NOx	0.027949616	0.0043232	
2035 Annual	Riverside (SC)	LDT2	65 NOx	0.025246071	0.0246088	
2035 Annual	Riverside (SS)	LDA	65 NOx	0.016273157	0.0167623	
2035 Annual	Riverside (SS)	LDT1	65 NOx	0.028199215	0.0012667	
2035 Annual	Riverside (SS)	LDT2	65 NOx	0.025801678	0.0071877	
2035 Annual	San Bernardino (MD)	LDA	65 NOx	0.019362385	0.0440962	
2035 Annual	San Bernardino (MD)	LDT1	65 NOx	0.033513845	0.0024902	
2035 Annual	San Bernardino (MD)	LDT2	65 NOx	0.030371278	0.0138058	
2035 Annual	San Bernardino (SC)	LDA	65 NOx	0.017253669	0.0632289	
2035 Annual	San Bernardino (SC)	LDT1	65 NOx	0.030431691	0.0037252	
2035 Annual	San Bernardino (SC)	LDT2	65 NOx	0.027114406	0.0210135	
2035 Annual	Ventura (SCC)	LDA	65 NOx	0.017418831	0.0316989	
2035 Annual	Ventura (SCC)	LDT1	65 NOx	0.028521448	0.0019668	
2035 Annual	Ventura (SCC)	LDT2	65 NOx	0.024818367	0.0096671	
2035 Annual	Imperial (SS)	LDA	65 PM10	0.000754587	0.0098772	0.000809345
2035 Annual	Imperial (SS)	LDT1	65 PM10	0.000965997	0.0005216	
2035 Annual	Imperial (SS)	LDT2	65 PM10	0.000884765	0.002941	
2035 Annual	Los Angeles (MD)	LDA	65 PM10	0.000827454	0.010218	
2035 Annual	Los Angeles (MD)	LDT1	65 PM10	0.001125283	0.0004925	
2035 Annual	Los Angeles (MD)	LDT2	65 PM10	0.0009177	0.0023178	
2035 Annual	Los Angeles (SC)	LDA	65 PM10	0.000773251	0.321664	
2035 Annual	Los Angeles (SC)	LDT1	65 PM10	0.001045908	0.0263991	
2035 Annual	Los Angeles (SC)	LDT2	65 PM10	0.00092445	0.1273252	
2035 Annual	Orange (SC)	LDA	65 PM10	0.000730243	0.1170813	
2035 Annual	Orange (SC)	LDT1	65 PM10	0.000945653	0.0086762	



2035 Annual	Orange (SC)	LDT2	65 PM10	0.000866937	0.0428934
2035 Annual	Riverside (MD/MDAQMD)	LDA	65 PM10	0.000746588	0.0025275
2035 Annual	Riverside (MD/MDAQMD)	LDT1	65 PM10	0.00098504	0.0001566
2035 Annual	Riverside (MD/MDAQMD)	LDT2	65 PM10	0.00089357	0.0008627
2035 Annual	Riverside (MD/SCAQMD)	LDA	65 PM10	0.000760795	0.0023371
2035 Annual	Riverside (MD/SCAQMD)	LDT1	65 PM10	0.00098264	0.0001492
2035 Annual	Riverside (MD/SCAQMD)	LDT2	65 PM10	0.000904762	0.000808
2035 Annual	Riverside (SC)	LDA	65 PM10	0.000761027	0.0769103
2035 Annual	Riverside (SC)	LDT1	65 PM10	0.000958071	0.0043232
2035 Annual	Riverside (SC)	LDT2	65 PM10	0.000877517	0.0246088
2035 Annual	Riverside (SS)	LDA	65 PM10	0.000716698	0.0167623
2035 Annual	Riverside (SS)	LDT1	65 PM10	0.000974555	0.0012667
2035 Annual	Riverside (SS)	LDT2	65 PM10	0.000895342	0.0071877
2035 Annual	San Bernardino (MD)	LDA	65 PM10	0.000764975	0.0440962
2035 Annual	San Bernardino (MD)	LDT1	65 PM10	0.000974756	0.0024902
2035 Annual	San Bernardino (MD)	LDT2	65 PM10	0.000896238	0.0138058
2035 Annual	San Bernardino (SC)	LDA	65 PM10	0.000756704	0.0632289
2035 Annual	San Bernardino (SC)	LDT1	65 PM10	0.001000416	0.0037252
2035 Annual	San Bernardino (SC)	LDT2	65 PM10	0.000903772	0.0210135
2035 Annual	Ventura (SCC)	LDA	65 PM10	0.000756197	0.0316989
2035 Annual	Ventura (SCC)	LDT1	65 PM10	0.00096267	0.0019668
2035 Annual	Ventura (SCC)	LDT2	65 PM10	0.000862575	0.0096671
2035 Annual	Imperial (SS)	LDA	65 PM2_5	0.000694179	0.0098772
2035 Annual	Imperial (SS)	LDT1	65 PM2_5	0.000888318	0.0005216
2035 Annual	Imperial (SS)	LDT2	65 PM2_5	0.000813765	0.002941
2035 Annual	Los Angeles (MD)	LDA	65 PM2_5	0.000761256	0.010218
2035 Annual	Los Angeles (MD)	LDT1	65 PM2_5	0.001034762	0.0004925
2035 Annual	Los Angeles (MD)	LDT2	65 PM2_5	0.000844048	0.0023178
2035 Annual	Los Angeles (SC)	LDA	65 PM2_5	0.000711355	0.321664
2035 Annual	Los Angeles (SC)	LDT1	65 PM2_5	0.000961846	0.0263991
2035 Annual	Los Angeles (SC)	LDT2	65 PM2_5	0.000850259	0.1273252
2035 Annual	Orange (SC)	LDA	65 PM2_5	0.000671773	0.1170813
2035 Annual	Orange (SC)	LDT1	65 PM2_5	0.000869581	0.0086762
2035 Annual	Orange (SC)	LDT2	65 PM2_5	0.000797371	0.0428934
2035 Annual	Riverside (MD/MDAQMD)	LDA	65 PM2_5	0.000686822	0.0025275
2035 Annual	Riverside (MD/MDAQMD)	LDT1	65 PM2_5	0.000905853	0.0001566
2035 Annual	Riverside (MD/MDAQMD)	LDT2	65 PM2_5	0.000821864	0.0008627
2035 Annual	Riverside (MD/SCAQMD)	LDA	65 PM2_5	0.000699899	0.0023371
2035 Annual	Riverside (MD/SCAQMD)	LDT1	65 PM2_5	0.000903629	0.0001492

0.000744493

2035 Annual	Riverside (MD/SCAQMD)	LDT2	65 PM2_5	0.000832154	0.000808	
2035 Annual	Riverside (SC)	LDA	65 PM2_5	0.000700107	0.0769103	
2035 Annual	Riverside (SC)	LDT1	65 PM2_5	0.000880989	0.0043232	
2035 Annual	Riverside (SC)	LDT2	65 PM2_5	0.0008071	0.0246088	
2035 Annual	Riverside (SS)	LDA	65 PM2_5	0.000659306	0.0167623	
2035 Annual	Riverside (SS)	LDT1	65 PM2_5	0.000896162	0.0012667	
2035 Annual	Riverside (SS)	LDT2	65 PM2_5	0.00082349	0.0071877	
2035 Annual	San Bernardino (MD)	LDA	65 PM2_5	0.000703743	0.0440962	
2035 Annual	San Bernardino (MD)	LDT1	65 PM2_5	0.000896367	0.0024902	
2035 Annual	San Bernardino (MD)	LDT2	65 PM2_5	0.000824315	0.0138058	
2035 Annual	San Bernardino (SC)	LDA	65 PM2_5	0.000696118	0.0632289	
2035 Annual	San Bernardino (SC)	LDT1	65 PM2_5	0.000919947	0.0037252	
2035 Annual	San Bernardino (SC)	LDT2	65 PM2_5	0.000831242	0.0210135	
2035 Annual	Ventura (SCC)	LDA	65 PM2_5	0.000695677	0.0316989	
2035 Annual	Ventura (SCC)	LDT1	65 PM2_5	0.000885266	0.0019668	
2035 Annual	Ventura (SCC)	LDT2	65 PM2_5	0.000793359	0.0096671	
2035 Annual	Imperial (SS)	LDA	65 ROG	0.051468831	0.0098772	0.004457602
2035 Annual	Imperial (SS)	LDT1	65 ROG	0.007381965	0.0005216	
2035 Annual	Imperial (SS)	LDT2	65 ROG	0.006093952	0.002941	
2035 Annual	Los Angeles (MD)	LDA	65 ROG	0.003809538	0.010218	
2035 Annual	Los Angeles (MD)	LDT1	65 ROG	0.008410999	0.0004925	
2035 Annual	Los Angeles (MD)	LDT2	65 ROG	0.005489217	0.0023178	
2035 Annual	Los Angeles (SC)	LDA	65 ROG	0.0034692	0.321664	
2035 Annual	Los Angeles (SC)	LDT1	65 ROG	0.006513575	0.0263991	
2035 Annual	Los Angeles (SC)	LDT2	65 ROG	0.005349547	0.1273252	
2035 Annual	Orange (SC)	LDA	65 ROG	0.003138132	0.1170813	
2035 Annual	Orange (SC)	LDT1	65 ROG	0.005212352	0.0086762	
2035 Annual	Orange (SC)	LDT2	65 ROG	0.004760013	0.0428934	
2035 Annual	Riverside (MD/MDAQMD)	LDA	65 ROG	0.003901827	0.0025275	
2035 Annual	Riverside (MD/MDAQMD)	LDT1	65 ROG	0.007793066	0.0001566	
2035 Annual	Riverside (MD/MDAQMD)	LDT2	65 ROG	0.006192421	0.0008627	
2035 Annual	Riverside (MD/SCAQMD)	LDA	65 ROG	0.003990898	0.0023371	
2035 Annual	Riverside (MD/SCAQMD)	LDT1	65 ROG	0.007549013	0.0001492	
2035 Annual	Riverside (MD/SCAQMD)	LDT2	65 ROG	0.006361649	0.000808	
2035 Annual	Riverside (SC)	LDA	65 ROG	0.003302048	0.0769103	
2035 Annual	Riverside (SC)	LDT1	65 ROG	0.005560556	0.0043232	
2035 Annual	Riverside (SC)	LDT2	65 ROG	0.004908067	0.0246088	
2035 Annual	Riverside (SS)	LDA	65 ROG	0.003064909	0.0167623	
2035 Annual	Riverside (SS)	LDT1	65 ROG	0.005637747	0.0012667	

2035 Annual	Riverside (SS)	LDT2	65 ROG	0.005035424	0.0071877	
2035 Annual	San Bernardino (MD)	LDA	65 ROG	0.003632629	0.0440962	
2035 Annual	San Bernardino (MD)	LDT1	65 ROG	0.006713556	0.0024902	
2035 Annual	San Bernardino (MD)	LDT2	65 ROG	0.00564845	0.0138058	
2035 Annual	San Bernardino (SC)	LDA	65 ROG	0.003305496	0.0632289	
2035 Annual	San Bernardino (SC)	LDT1	65 ROG	0.006138789	0.0037252	
2035 Annual	San Bernardino (SC)	LDT2	65 ROG	0.005232638	0.0210135	
2035 Annual	Ventura (SCC)	LDA	65 ROG	0.003344824	0.0316989	
2035 Annual	Ventura (SCC)	LDT1	65 ROG	0.005716322	0.0019668	
2035 Annual	Ventura (SCC)	LDT2	65 ROG	0.004795898	0.0096671	
2035 Annual	Imperial (SS)	LDA	65 SOx	0.001743024	0.0098772	0.00188164
2035 Annual	Imperial (SS)	LDT1	65 SOx	0.002245264	0.0005216	
2035 Annual	Imperial (SS)	LDT2	65 SOx	0.002164979	0.002941	
2035 Annual	Los Angeles (MD)	LDA	65 SOx	0.001785572	0.010218	
2035 Annual	Los Angeles (MD)	LDT1	65 SOx	0.002343871	0.0004925	
2035 Annual	Los Angeles (MD)	LDT2	65 SOx	0.002188569	0.0023178	
2035 Annual	Los Angeles (SC)	LDA	65 SOx	0.001755254	0.321664	
2035 Annual	Los Angeles (SC)	LDT1	65 SOx	0.002302732	0.0263991	
2035 Annual	Los Angeles (SC)	LDT2	65 SOx	0.002191399	0.1273252	
2035 Annual	Orange (SC)	LDA	65 SOx	0.00172788	0.1170813	
2035 Annual	Orange (SC)	LDT1	65 SOx	0.002246099	0.0086762	
2035 Annual	Orange (SC)	LDT2	65 SOx	0.002141802	0.0428934	
2035 Annual	Riverside (MD/MDAQMD)	LDA	65 SOx	0.001737739	0.0025275	
2035 Annual	Riverside (MD/MDAQMD)	LDT1	65 SOx	0.002253694	0.0001566	
2035 Annual	Riverside (MD/MDAQMD)	LDT2	65 SOx	0.002173212	0.0008627	
2035 Annual	Riverside (MD/SCAQMD)	LDA	65 SOx	0.001743317	0.0023371	
2035 Annual	Riverside (MD/SCAQMD)	LDT1	65 SOx	0.002261946	0.0001492	
2035 Annual	Riverside (MD/SCAQMD)	LDT2	65 SOx	0.002186898	0.000808	
2035 Annual	Riverside (SC)	LDA	65 SOx	0.001742812	0.0769103	
2035 Annual	Riverside (SC)	LDT1	65 SOx	0.002242665	0.0043232	
2035 Annual	Riverside (SC)	LDT2	65 SOx	0.002155493	0.0246088	
2035 Annual	Riverside (SS)	LDA	65 SOx	0.00172134	0.0167623	
2035 Annual	Riverside (SS)	LDT1	65 SOx	0.002257441	0.0012667	
2035 Annual	Riverside (SS)	LDT2	65 SOx	0.002174095	0.0071877	
2035 Annual	San Bernardino (MD)	LDA	65 SOx	0.00174597	0.0440962	
2035 Annual	San Bernardino (MD)	LDT1	65 SOx	0.002255651	0.0024902	
2035 Annual	San Bernardino (MD)	LDT2	65 SOx	0.002174995	0.0138058	
2035 Annual	San Bernardino (SC)	LDA	65 SOx	0.001741764	0.0632289	
2035 Annual	San Bernardino (SC)	LDT1	65 SOx	0.002271478	0.0037252	

2035 Annual	San Bernardino (SC)	LDT2	65 SOx	0.002182775	0.0210135
2035 Annual	Ventura (SCC)	LDA	65 SOx	0.001742393	0.0316989
2035 Annual	Ventura (SCC)	LDT1	65 SOx	0.002256307	0.0019668
2035 Annual	Ventura (SCC)	LDT2	65 SOx	0.002137104	0.0096671

Pollutant	EF (g/mi)	g/lb	Project (mi/day No Project (m Project (lb/ No Project lb/day)				Net Diff		
ROG	0.004457602		453.6	559,604,278	559,601,676	5499.3	5499.3	ROG	0.026
Nox	0.022141569		453.6	559,604,278	559,601,676	27316.0	27315.8	Nox	0.127
CO	0.234740232		453.6	559,604,278	559,601,676	289599.0	289596.6	CO	2.347
SOX	0.00188164		453.6	559,604,278	559,601,676	2321.4	2321.4	SOX	0.011
PM10	0.045559345		453.6	559,604,278	559,601,676	56206.4	56206.1	PM10	0.261
PM2.5	0.018494493		453.6	559,604,278	559,601,676	22816.6	22816.5	PM2.5	0.106

0.04475

0.01775

calendar_year	season_month	sub_area	vehicle_class	process	pollutant	emission_rate	PM10 (g/mi)
2035	Annual	Imperial (SS)	LDA	PMBW	PM10	0.03675 0.009877221	0.04475
2035	Annual	Imperial (SS)	LDT1	PMBW	PM10	0.03675 0.000521618	
2035	Annual	Imperial (SS)	LDT2	PMBW	PM10	0.03675 0.002940994	
2035	Annual	Los Angeles (MD)	LDA	PMBW	PM10	0.03675 0.010217975	
2035	Annual	Los Angeles (MD)	LDT1	PMBW	PM10	0.03675 0.000492475	
2035	Annual	Los Angeles (MD)	LDT2	PMBW	PM10	0.03675 0.002317789	
2035	Annual	Los Angeles (SC)	LDA	PMBW	PM10	0.03675 0.321664034	
2035	Annual	Los Angeles (SC)	LDT1	PMBW	PM10	0.03675 0.026399111	
2035	Annual	Los Angeles (SC)	LDT2	PMBW	PM10	0.03675 0.127325181	
2035	Annual	Orange (SC)	LDA	PMBW	PM10	0.03675 0.117081322	
2035	Annual	Orange (SC)	LDT1	PMBW	PM10	0.03675 0.008676152	
2035	Annual	Orange (SC)	LDT2	PMBW	PM10	0.03675 0.042893424	
2035	Annual	Riverside (MD/MDAQMD)	LDA	PMBW	PM10	0.03675 0.002527478	
2035	Annual	Riverside (MD/MDAQMD)	LDT1	PMBW	PM10	0.03675 0.000156624	
2035	Annual	Riverside (MD/MDAQMD)	LDT2	PMBW	PM10	0.03675 0.00086271	
2035	Annual	Riverside (MD/SCAQMD)	LDA	PMBW	PM10	0.03675 0.002337115	
2035	Annual	Riverside (MD/SCAQMD)	LDT1	PMBW	PM10	0.03675 0.000149227	
2035	Annual	Riverside (MD/SCAQMD)	LDT2	PMBW	PM10	0.03675 0.00080804	
2035	Annual	Riverside (SC)	LDA	PMBW	PM10	0.03675 0.076910259	
2035	Annual	Riverside (SC)	LDT1	PMBW	PM10	0.03675 0.004323207	
2035	Annual	Riverside (SC)	LDT2	PMBW	PM10	0.03675 0.024608766	
2035	Annual	Riverside (SS)	LDA	PMBW	PM10	0.03675 0.016762281	
2035	Annual	Riverside (SS)	LDT1	PMBW	PM10	0.03675 0.001266718	
2035	Annual	Riverside (SS)	LDT2	PMBW	PM10	0.03675 0.007187711	
2035	Annual	San Bernardino (MD)	LDA	PMBW	PM10	0.03675 0.044096218	
2035	Annual	San Bernardino (MD)	LDT1	PMBW	PM10	0.03675 0.00249017	
2035	Annual	San Bernardino (MD)	LDT2	PMBW	PM10	0.03675 0.013805809	
2035	Annual	San Bernardino (SC)	LDA	PMBW	PM10	0.03675 0.063228894	
2035	Annual	San Bernardino (SC)	LDT1	PMBW	PM10	0.03675 0.003725151	
2035	Annual	San Bernardino (SC)	LDT2	PMBW	PM10	0.03675 0.02101347	
2035	Annual	Ventura (SCC)	LDA	PMBW	PM10	0.03675 0.031698946	
2035	Annual	Ventura (SCC)	LDT1	PMBW	PM10	0.03675 0.001966816	
2035	Annual	Ventura (SCC)	LDT2	PMBW	PM10	0.03675 0.009667096	

2035 Annual	Imperial (SS)	LDA	PMTW	PM10	0.008	0.009877221	
2035 Annual	Imperial (SS)	LDT1	PMTW	PM10	0.008	0.000521618	
2035 Annual	Imperial (SS)	LDT2	PMTW	PM10	0.008	0.002940994	
2035 Annual	Los Angeles (MD)	LDA	PMTW	PM10	0.008	0.010217975	
2035 Annual	Los Angeles (MD)	LDT1	PMTW	PM10	0.008	0.000492475	
2035 Annual	Los Angeles (MD)	LDT2	PMTW	PM10	0.008	0.002317789	
2035 Annual	Los Angeles (SC)	LDA	PMTW	PM10	0.008	0.321664034	
2035 Annual	Los Angeles (SC)	LDT1	PMTW	PM10	0.008	0.026399111	
2035 Annual	Los Angeles (SC)	LDT2	PMTW	PM10	0.008	0.127325181	
2035 Annual	Orange (SC)	LDA	PMTW	PM10	0.008	0.117081322	
2035 Annual	Orange (SC)	LDT1	PMTW	PM10	0.008	0.008676152	
2035 Annual	Orange (SC)	LDT2	PMTW	PM10	0.008	0.042893424	
2035 Annual	Riverside (MD/MDAQMD)	LDA	PMTW	PM10	0.008	0.002527478	
2035 Annual	Riverside (MD/MDAQMD)	LDT1	PMTW	PM10	0.008	0.000156624	
2035 Annual	Riverside (MD/MDAQMD)	LDT2	PMTW	PM10	0.008	0.00086271	
2035 Annual	Riverside (MD/SCAQMD)	LDA	PMTW	PM10	0.008	0.002337115	
2035 Annual	Riverside (MD/SCAQMD)	LDT1	PMTW	PM10	0.008	0.000149227	
2035 Annual	Riverside (MD/SCAQMD)	LDT2	PMTW	PM10	0.008	0.00080804	
2035 Annual	Riverside (SC)	LDA	PMTW	PM10	0.008	0.076910259	
2035 Annual	Riverside (SC)	LDT1	PMTW	PM10	0.008	0.004323207	
2035 Annual	Riverside (SC)	LDT2	PMTW	PM10	0.008	0.024608766	
2035 Annual	Riverside (SS)	LDA	PMTW	PM10	0.008	0.016762281	
2035 Annual	Riverside (SS)	LDT1	PMTW	PM10	0.008	0.001266718	
2035 Annual	Riverside (SS)	LDT2	PMTW	PM10	0.008	0.007187711	
2035 Annual	San Bernardino (MD)	LDA	PMTW	PM10	0.008	0.044096218	
2035 Annual	San Bernardino (MD)	LDT1	PMTW	PM10	0.008	0.00249017	
2035 Annual	San Bernardino (MD)	LDT2	PMTW	PM10	0.008	0.013805809	
2035 Annual	San Bernardino (SC)	LDA	PMTW	PM10	0.008	0.063228894	
2035 Annual	San Bernardino (SC)	LDT1	PMTW	PM10	0.008	0.003725151	
2035 Annual	San Bernardino (SC)	LDT2	PMTW	PM10	0.008	0.02101347	
2035 Annual	Ventura (SCC)	LDA	PMTW	PM10	0.008	0.031698946	
2035 Annual	Ventura (SCC)	LDT1	PMTW	PM10	0.008	0.001966816	
2035 Annual	Ventura (SCC)	LDT2	PMTW	PM10	0.008	0.009667096	
2035 Annual	Imperial (SS)	LDA	PMBW	PM2_5	0.01575	0.009877221	0.01775

2035 Annual	Imperial (SS)	LDT1	PMBW	PM2_5	0.01575	0.000521618
2035 Annual	Imperial (SS)	LDT2	PMBW	PM2_5	0.01575	0.002940994
2035 Annual	Los Angeles (MD)	LDA	PMBW	PM2_5	0.01575	0.010217975
2035 Annual	Los Angeles (MD)	LDT1	PMBW	PM2_5	0.01575	0.000492475
2035 Annual	Los Angeles (MD)	LDT2	PMBW	PM2_5	0.01575	0.002317789
2035 Annual	Los Angeles (SC)	LDA	PMBW	PM2_5	0.01575	0.321664034
2035 Annual	Los Angeles (SC)	LDT1	PMBW	PM2_5	0.01575	0.026399111
2035 Annual	Los Angeles (SC)	LDT2	PMBW	PM2_5	0.01575	0.127325181
2035 Annual	Orange (SC)	LDA	PMBW	PM2_5	0.01575	0.117081322
2035 Annual	Orange (SC)	LDT1	PMBW	PM2_5	0.01575	0.008676152
2035 Annual	Orange (SC)	LDT2	PMBW	PM2_5	0.01575	0.042893424
2035 Annual	Riverside (MD/MDAQMD)	LDA	PMBW	PM2_5	0.01575	0.002527478
2035 Annual	Riverside (MD/MDAQMD)	LDT1	PMBW	PM2_5	0.01575	0.000156624
2035 Annual	Riverside (MD/MDAQMD)	LDT2	PMBW	PM2_5	0.01575	0.00086271
2035 Annual	Riverside (MD/SCAQMD)	LDA	PMBW	PM2_5	0.01575	0.002337115
2035 Annual	Riverside (MD/SCAQMD)	LDT1	PMBW	PM2_5	0.01575	0.000149227
2035 Annual	Riverside (MD/SCAQMD)	LDT2	PMBW	PM2_5	0.01575	0.00080804
2035 Annual	Riverside (SC)	LDA	PMBW	PM2_5	0.01575	0.076910259
2035 Annual	Riverside (SC)	LDT1	PMBW	PM2_5	0.01575	0.004323207
2035 Annual	Riverside (SC)	LDT2	PMBW	PM2_5	0.01575	0.024608766
2035 Annual	Riverside (SS)	LDA	PMBW	PM2_5	0.01575	0.016762281
2035 Annual	Riverside (SS)	LDT1	PMBW	PM2_5	0.01575	0.001266718
2035 Annual	Riverside (SS)	LDT2	PMBW	PM2_5	0.01575	0.007187711
2035 Annual	San Bernardino (MD)	LDA	PMBW	PM2_5	0.01575	0.044096218
2035 Annual	San Bernardino (MD)	LDT1	PMBW	PM2_5	0.01575	0.00249017
2035 Annual	San Bernardino (MD)	LDT2	PMBW	PM2_5	0.01575	0.013805809
2035 Annual	San Bernardino (SC)	LDA	PMBW	PM2_5	0.01575	0.063228894
2035 Annual	San Bernardino (SC)	LDT1	PMBW	PM2_5	0.01575	0.003725151
2035 Annual	San Bernardino (SC)	LDT2	PMBW	PM2_5	0.01575	0.02101347
2035 Annual	Ventura (SCC)	LDA	PMBW	PM2_5	0.01575	0.031698946
2035 Annual	Ventura (SCC)	LDT1	PMBW	PM2_5	0.01575	0.001966816
2035 Annual	Ventura (SCC)	LDT2	PMBW	PM2_5	0.01575	0.009667096
2035 Annual	Imperial (SS)	LDA	PMTW	PM2_5	0.002	0.009877221
2035 Annual	Imperial (SS)	LDT1	PMTW	PM2_5	0.002	0.000521618

2035 Annual	Imperial (SS)	LDT2	PMTW	PM2_5	0.002	0.002940994
2035 Annual	Los Angeles (MD)	LDA	PMTW	PM2_5	0.002	0.010217975
2035 Annual	Los Angeles (MD)	LDT1	PMTW	PM2_5	0.002	0.000492475
2035 Annual	Los Angeles (MD)	LDT2	PMTW	PM2_5	0.002	0.002317789
2035 Annual	Los Angeles (SC)	LDA	PMTW	PM2_5	0.002	0.321664034
2035 Annual	Los Angeles (SC)	LDT1	PMTW	PM2_5	0.002	0.026399111
2035 Annual	Los Angeles (SC)	LDT2	PMTW	PM2_5	0.002	0.127325181
2035 Annual	Orange (SC)	LDA	PMTW	PM2_5	0.002	0.117081322
2035 Annual	Orange (SC)	LDT1	PMTW	PM2_5	0.002	0.008676152
2035 Annual	Orange (SC)	LDT2	PMTW	PM2_5	0.002	0.042893424
2035 Annual	Riverside (MD/MDAQMD)	LDA	PMTW	PM2_5	0.002	0.002527478
2035 Annual	Riverside (MD/MDAQMD)	LDT1	PMTW	PM2_5	0.002	0.000156624
2035 Annual	Riverside (MD/MDAQMD)	LDT2	PMTW	PM2_5	0.002	0.00086271
2035 Annual	Riverside (MD/SCAQMD)	LDA	PMTW	PM2_5	0.002	0.002337115
2035 Annual	Riverside (MD/SCAQMD)	LDT1	PMTW	PM2_5	0.002	0.000149227
2035 Annual	Riverside (MD/SCAQMD)	LDT2	PMTW	PM2_5	0.002	0.00080804
2035 Annual	Riverside (SC)	LDA	PMTW	PM2_5	0.002	0.076910259
2035 Annual	Riverside (SC)	LDT1	PMTW	PM2_5	0.002	0.004323207
2035 Annual	Riverside (SC)	LDT2	PMTW	PM2_5	0.002	0.024608766
2035 Annual	Riverside (SS)	LDA	PMTW	PM2_5	0.002	0.016762281
2035 Annual	Riverside (SS)	LDT1	PMTW	PM2_5	0.002	0.001266718
2035 Annual	Riverside (SS)	LDT2	PMTW	PM2_5	0.002	0.007187711
2035 Annual	San Bernardino (MD)	LDA	PMTW	PM2_5	0.002	0.044096218
2035 Annual	San Bernardino (MD)	LDT1	PMTW	PM2_5	0.002	0.00249017
2035 Annual	San Bernardino (MD)	LDT2	PMTW	PM2_5	0.002	0.013805809
2035 Annual	San Bernardino (SC)	LDA	PMTW	PM2_5	0.002	0.063228894
2035 Annual	San Bernardino (SC)	LDT1	PMTW	PM2_5	0.002	0.003725151
2035 Annual	San Bernardino (SC)	LDT2	PMTW	PM2_5	0.002	0.02101347
2035 Annual	Ventura (SCC)	LDA	PMTW	PM2_5	0.002	0.031698946
2035 Annual	Ventura (SCC)	LDT1	PMTW	PM2_5	0.002	0.001966816
2035 Annual	Ventura (SCC)	LDT2	PMTW	PM2_5	0.002	0.009667096



calendar_year	season_month	sub_area	vehicle_class	temperature	relative_humidity	process	speed_time	pollutant	emission_rate	VMT %	EF (g/mi)
2016	Annual	Imperial (SS)	LDA	65		71 RUNEX	65	CO	1.613014457	0.007996957	0.967063
2016	Annual	Imperial (SS)	LDT1	65		71 RUNEX	65	CO	4.094909281	0.000652497	
2016	Annual	Imperial (SS)	LDT2	65		71 RUNEX	65	CO	1.483954749	0.002773952	
2016	Annual	Los Angeles (MD)	LDA	65		71 RUNEX	65	CO	0.922013832	0.009690318	
2016	Annual	Los Angeles (MD)	LDT1	65		71 RUNEX	65	CO	3.373501803	0.000760411	
2016	Annual	Los Angeles (MD)	LDT2	65		71 RUNEX	65	CO	1.375877793	0.002700399	
2016	Annual	Los Angeles (SC)	LDA	65		71 RUNEX	65	CO	0.856923985	0.352832775	
2016	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX	65	CO	2.725467218	0.030621546	
2016	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX	65	CO	1.131012119	0.127933791	
2016	Annual	Orange (SC)	LDA	65		71 RUNEX	65	CO	0.66734893	0.120260768	
2016	Annual	Orange (SC)	LDT1	65		71 RUNEX	65	CO	1.651427074	0.010281773	
2016	Annual	Orange (SC)	LDT2	65		71 RUNEX	65	CO	0.805639257	0.047935411	
2016	Annual	Riverside (MD/MDAQMD)	LDA	65		71 RUNEX	65	CO	0.922309705	0.001919458	
2016	Annual	Riverside (MD/MDAQMD)	LDT1	65		71 RUNEX	65	CO	4.723013729	0.000173829	
2016	Annual	Riverside (MD/MDAQMD)	LDT2	65		71 RUNEX	65	CO	1.44298347	0.000688394	
2016	Annual	Riverside (MD/SCAQMD)	LDA	65		71 RUNEX	65	CO	0.927246584	0.001843845	
2016	Annual	Riverside (MD/SCAQMD)	LDT1	65		71 RUNEX	65	CO	3.142204117	0.000160748	
2016	Annual	Riverside (MD/SCAQMD)	LDT2	65		71 RUNEX	65	CO	1.292435394	0.000675872	
2016	Annual	Riverside (SC)	LDA	65		71 RUNEX	65	CO	0.712615902	0.059362307	
2016	Annual	Riverside (SC)	LDT1	65		71 RUNEX	65	CO	2.171498808	0.004914481	
2016	Annual	Riverside (SC)	LDT2	65		71 RUNEX	65	CO	0.936217102	0.020220244	
2016	Annual	Riverside (SS)	LDA	65		71 RUNEX	65	CO	0.669668075	0.013876046	
2016	Annual	Riverside (SS)	LDT1	65		71 RUNEX	65	CO	2.170162487	0.001299934	
2016	Annual	Riverside (SS)	LDT2	65		71 RUNEX	65	CO	0.926246494	0.005506934	
2016	Annual	San Bernardino (MD)	LDA	65		71 RUNEX	65	CO	0.848750307	0.037633218	
2016	Annual	San Bernardino (MD)	LDT1	65		71 RUNEX	65	CO	3.127787122	0.003105515	
2016	Annual	San Bernardino (MD)	LDT2	65		71 RUNEX	65	CO	1.253346204	0.012959327	
2016	Annual	San Bernardino (SC)	LDA	65		71 RUNEX	65	CO	0.754838589	0.055705475	
2016	Annual	San Bernardino (SC)	LDT1	65		71 RUNEX	65	CO	2.534800066	0.004559031	
2016	Annual	San Bernardino (SC)	LDT2	65		71 RUNEX	65	CO	1.082350853	0.018612462	
2016	Annual	Ventura (SCC)	LDA	65		71 RUNEX	65	CO	0.788719426	0.029237064	
2016	Annual	Ventura (SCC)	LDT1	65		71 RUNEX	65	CO	2.076869533	0.0025598	
2016	Annual	Ventura (SCC)	LDT2	65		71 RUNEX	65	CO	0.947037679	0.010545416	
2016	Annual	Imperial (SS)	LDA	65		71 RUNEX	65	NOx	0.27018523	0.007996957	0.115355
2016	Annual	Imperial (SS)	LDT1	65		71 RUNEX	65	NOx	0.468371338	0.000652497	
2016	Annual	Imperial (SS)	LDT2	65		71 RUNEX	65	NOx	0.231011069	0.002773952	
2016	Annual	Los Angeles (MD)	LDA	65		71 RUNEX	65	NOx	0.100102206	0.009690318	
2016	Annual	Los Angeles (MD)	LDT1	65		71 RUNEX	65	NOx	0.352773015	0.000760411	
2016	Annual	Los Angeles (MD)	LDT2	65		71 RUNEX	65	NOx	0.188962703	0.002700399	
2016	Annual	Los Angeles (SC)	LDA	65		71 RUNEX	65	NOx	0.092033731	0.352832775	
2016	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX	65	NOx	0.29658873	0.030621546	
2016	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX	65	NOx	0.160423111	0.127933791	
2016	Annual	Orange (SC)	LDA	65		71 RUNEX	65	NOx	0.073333399	0.120260768	
2016	Annual	Orange (SC)	LDT1	65		71 RUNEX	65	NOx	0.188302729	0.010281773	
2016	Annual	Orange (SC)	LDT2	65		71 RUNEX	65	NOx	0.115731722	0.047935411	
2016	Annual	Riverside (MD/MDAQMD)	LDA	65		71 RUNEX	65	NOx	0.112211237	0.001919458	

2016 Annual	Riverside (MD/MDAQMD)	LDT1	65	71 RUNEX	65 NOx	0.522070829	0.000173829	
2016 Annual	Riverside (MD/MDAQMD)	LDT2	65	71 RUNEX	65 NOx	0.224983035	0.000688394	
2016 Annual	Riverside (MD/SCAQMD)	LDA	65	71 RUNEX	65 NOx	0.113046917	0.001843845	
2016 Annual	Riverside (MD/SCAQMD)	LDT1	65	71 RUNEX	65 NOx	0.391498239	0.000160748	
2016 Annual	Riverside (MD/SCAQMD)	LDT2	65	71 RUNEX	65 NOx	0.217763459	0.000675872	
2016 Annual	Riverside (SC)	LDA	65	71 RUNEX	65 NOx	0.077874954	0.059362307	
2016 Annual	Riverside (SC)	LDT1	65	71 RUNEX	65 NOx	0.247005875	0.004914481	
2016 Annual	Riverside (SC)	LDT2	65	71 RUNEX	65 NOx	0.132060537	0.020220244	
2016 Annual	Riverside (SS)	LDA	65	71 RUNEX	65 NOx	0.074093716	0.013876046	
2016 Annual	Riverside (SS)	LDT1	65	71 RUNEX	65 NOx	0.236516798	0.001299934	
2016 Annual	Riverside (SS)	LDT2	65	71 RUNEX	65 NOx	0.129695547	0.005506934	
2016 Annual	San Bernardino (MD)	LDA	65	71 RUNEX	65 NOx	0.099204789	0.037633218	
2016 Annual	San Bernardino (MD)	LDT1	65	71 RUNEX	65 NOx	0.359407513	0.003105515	
2016 Annual	San Bernardino (MD)	LDT2	65	71 RUNEX	65 NOx	0.197314935	0.012959327	
2016 Annual	San Bernardino (SC)	LDA	65	71 RUNEX	65 NOx	0.082043954	0.055705475	
2016 Annual	San Bernardino (SC)	LDT1	65	71 RUNEX	65 NOx	0.282151291	0.004559031	
2016 Annual	San Bernardino (SC)	LDT2	65	71 RUNEX	65 NOx	0.154391199	0.018612462	
2016 Annual	Ventura (SCC)	LDA	65	71 RUNEX	65 NOx	0.085669655	0.029237064	
2016 Annual	Ventura (SCC)	LDT1	65	71 RUNEX	65 NOx	0.235179876	0.0025598	
2016 Annual	Ventura (SCC)	LDT2	65	71 RUNEX	65 NOx	0.136378824	0.010545416	
2016 Annual	Imperial (SS)	LDA	65	71 RUNEX	65 PM10	0.001703741	0.007996957	0.001843
2016 Annual	Imperial (SS)	LDT1	65	71 RUNEX	65 PM10	0.004446024	0.000652497	
2016 Annual	Imperial (SS)	LDT2	65	71 RUNEX	65 PM10	0.001762673	0.002773952	
2016 Annual	Los Angeles (MD)	LDA	65	71 RUNEX	65 PM10	0.001934341	0.009690318	
2016 Annual	Los Angeles (MD)	LDT1	65	71 RUNEX	65 PM10	0.004645033	0.000760411	
2016 Annual	Los Angeles (MD)	LDT2	65	71 RUNEX	65 PM10	0.001839877	0.002700399	
2016 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	65 PM10	0.001912707	0.352832775	
2016 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	65 PM10	0.00397594	0.030621546	
2016 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	65 PM10	0.001684461	0.127933791	
2016 Annual	Orange (SC)	LDA	65	71 RUNEX	65 PM10	0.001587227	0.120260768	
2016 Annual	Orange (SC)	LDT1	65	71 RUNEX	65 PM10	0.002684179	0.010281773	
2016 Annual	Orange (SC)	LDT2	65	71 RUNEX	65 PM10	0.001336099	0.047935411	
2016 Annual	Riverside (MD/MDAQMD)	LDA	65	71 RUNEX	65 PM10	0.001774777	0.001919458	
2016 Annual	Riverside (MD/MDAQMD)	LDT1	65	71 RUNEX	65 PM10	0.005043303	0.000173829	
2016 Annual	Riverside (MD/MDAQMD)	LDT2	65	71 RUNEX	65 PM10	0.001725755	0.000688394	
2016 Annual	Riverside (MD/SCAQMD)	LDA	65	71 RUNEX	65 PM10	0.001797859	0.001843845	
2016 Annual	Riverside (MD/SCAQMD)	LDT1	65	71 RUNEX	65 PM10	0.003713919	0.000160748	
2016 Annual	Riverside (MD/SCAQMD)	LDT2	65	71 RUNEX	65 PM10	0.001633476	0.000675872	
2016 Annual	Riverside (SC)	LDA	65	71 RUNEX	65 PM10	0.001585919	0.059362307	
2016 Annual	Riverside (SC)	LDT1	65	71 RUNEX	65 PM10	0.003389072	0.004914481	
2016 Annual	Riverside (SC)	LDT2	65	71 RUNEX	65 PM10	0.001475151	0.020220244	
2016 Annual	Riverside (SS)	LDA	65	71 RUNEX	65 PM10	0.00160956	0.013876046	
2016 Annual	Riverside (SS)	LDT1	65	71 RUNEX	65 PM10	0.003307111	0.001299934	
2016 Annual	Riverside (SS)	LDT2	65	71 RUNEX	65 PM10	0.001461586	0.005506934	
2016 Annual	San Bernardino (MD)	LDA	65	71 RUNEX	65 PM10	0.00174096	0.037633218	
2016 Annual	San Bernardino (MD)	LDT1	65	71 RUNEX	65 PM10	0.003845667	0.003105515	
2016 Annual	San Bernardino (MD)	LDT2	65	71 RUNEX	65 PM10	0.001686906	0.012959327	

2016 Annual	San Bernardino (SC)	LDA	65	71 RUNEX	65 PM10	0.001635389	0.055705475	
2016 Annual	San Bernardino (SC)	LDT1	65	71 RUNEX	65 PM10	0.003796129	0.004559031	
2016 Annual	San Bernardino (SC)	LDT2	65	71 RUNEX	65 PM10	0.001621688	0.018612462	
2016 Annual	Ventura (SCC)	LDA	65	71 RUNEX	65 PM10	0.001796277	0.029237064	
2016 Annual	Ventura (SCC)	LDT1	65	71 RUNEX	65 PM10	0.003241402	0.0025598	
2016 Annual	Ventura (SCC)	LDT2	65	71 RUNEX	65 PM10	0.001478592	0.010545416	
2016 Annual	Imperial (SS)	LDA	65	71 RUNEX	65 PM2_5	0.001575829	0.007996957	0.001704
2016 Annual	Imperial (SS)	LDT1	65	71 RUNEX	65 PM2_5	0.004113481	0.000652497	
2016 Annual	Imperial (SS)	LDT2	65	71 RUNEX	65 PM2_5	0.001625244	0.002773952	
2016 Annual	Los Angeles (MD)	LDA	65	71 RUNEX	65 PM2_5	0.001791017	0.009690318	
2016 Annual	Los Angeles (MD)	LDT1	65	71 RUNEX	65 PM2_5	0.004303639	0.000760411	
2016 Annual	Los Angeles (MD)	LDT2	65	71 RUNEX	65 PM2_5	0.001698397	0.002700399	
2016 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	65 PM2_5	0.001771071	0.352832775	
2016 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	65 PM2_5	0.00367824	0.030621546	
2016 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	65 PM2_5	0.001552964	0.127933791	
2016 Annual	Orange (SC)	LDA	65	71 RUNEX	65 PM2_5	0.001467601	0.120260768	
2016 Annual	Orange (SC)	LDT1	65	71 RUNEX	65 PM2_5	0.002478098	0.010281773	
2016 Annual	Orange (SC)	LDT2	65	71 RUNEX	65 PM2_5	0.001229955	0.047935411	
2016 Annual	Riverside (MD/MDAQMD)	LDA	65	71 RUNEX	65 PM2_5	0.001641984	0.001919458	
2016 Annual	Riverside (MD/MDAQMD)	LDT1	65	71 RUNEX	65 PM2_5	0.004674075	0.000173829	
2016 Annual	Riverside (MD/MDAQMD)	LDT2	65	71 RUNEX	65 PM2_5	0.001591326	0.000688394	
2016 Annual	Riverside (MD/SCAQMD)	LDA	65	71 RUNEX	65 PM2_5	0.001664472	0.001843845	
2016 Annual	Riverside (MD/SCAQMD)	LDT1	65	71 RUNEX	65 PM2_5	0.003439319	0.000160748	
2016 Annual	Riverside (MD/SCAQMD)	LDT2	65	71 RUNEX	65 PM2_5	0.001506012	0.000675872	
2016 Annual	Riverside (SC)	LDA	65	71 RUNEX	65 PM2_5	0.00146594	0.059362307	
2016 Annual	Riverside (SC)	LDT1	65	71 RUNEX	65 PM2_5	0.003130094	0.004914481	
2016 Annual	Riverside (SC)	LDT2	65	71 RUNEX	65 PM2_5	0.001359125	0.020220244	
2016 Annual	Riverside (SS)	LDA	65	71 RUNEX	65 PM2_5	0.001487804	0.013876046	
2016 Annual	Riverside (SS)	LDT1	65	71 RUNEX	65 PM2_5	0.003056464	0.001299934	
2016 Annual	Riverside (SS)	LDT2	65	71 RUNEX	65 PM2_5	0.001346484	0.005506934	
2016 Annual	San Bernardino (MD)	LDA	65	71 RUNEX	65 PM2_5	0.001610604	0.037633218	
2016 Annual	San Bernardino (MD)	LDT1	65	71 RUNEX	65 PM2_5	0.003560794	0.003105515	
2016 Annual	San Bernardino (MD)	LDT2	65	71 RUNEX	65 PM2_5	0.001555084	0.012959327	
2016 Annual	San Bernardino (SC)	LDA	65	71 RUNEX	65 PM2_5	0.001511087	0.055705475	
2016 Annual	San Bernardino (SC)	LDT1	65	71 RUNEX	65 PM2_5	0.003509086	0.004559031	
2016 Annual	San Bernardino (SC)	LDT2	65	71 RUNEX	65 PM2_5	0.001494652	0.018612462	
2016 Annual	Ventura (SCC)	LDA	65	71 RUNEX	65 PM2_5	0.001663377	0.029237064	
2016 Annual	Ventura (SCC)	LDT1	65	71 RUNEX	65 PM2_5	0.002995955	0.0025598	
2016 Annual	Ventura (SCC)	LDT2	65	71 RUNEX	65 PM2_5	0.00136192	0.010545416	
2016 Annual	Imperial (SS)	LDA	65	71 RUNEX	65 ROG	0.081474412	0.007996957	0.029673
2016 Annual	Imperial (SS)	LDT1	65	71 RUNEX	65 ROG	0.130721687	0.000652497	
2016 Annual	Imperial (SS)	LDT2	65	71 RUNEX	65 ROG	0.046341576	0.002773952	
2016 Annual	Los Angeles (MD)	LDA	65	71 RUNEX	65 ROG	0.028840226	0.009690318	
2016 Annual	Los Angeles (MD)	LDT1	65	71 RUNEX	65 ROG	0.117120693	0.000760411	
2016 Annual	Los Angeles (MD)	LDT2	65	71 RUNEX	65 ROG	0.043196319	0.002700399	
2016 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	65 ROG	0.026874223	0.352832775	
2016 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	65 ROG	0.084927222	0.030621546	

2016 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	65 ROG	0.033454842	0.127933791
2016 Annual	Orange (SC)	LDA	65	71 RUNEX	65 ROG	0.019554218	0.120260768
2016 Annual	Orange (SC)	LDT1	65	71 RUNEX	65 ROG	0.048384471	0.010281773
2016 Annual	Orange (SC)	LDT2	65	71 RUNEX	65 ROG	0.021368299	0.047935411
2016 Annual	Riverside (MD/MDAQMD)	LDA	65	71 RUNEX	65 ROG	0.030691655	0.001919458
2016 Annual	Riverside (MD/MDAQMD)	LDT1	65	71 RUNEX	65 ROG	0.153882	0.000173829
2016 Annual	Riverside (MD/MDAQMD)	LDT2	65	71 RUNEX	65 ROG	0.04549911	0.000688394
2016 Annual	Riverside (MD/SCAQMD)	LDA	65	71 RUNEX	65 ROG	0.03065475	0.001843845
2016 Annual	Riverside (MD/SCAQMD)	LDT1	65	71 RUNEX	65 ROG	0.10851434	0.000160748
2016 Annual	Riverside (MD/SCAQMD)	LDT2	65	71 RUNEX	65 ROG	0.041052757	0.000675872
2016 Annual	Riverside (SC)	LDA	65	71 RUNEX	65 ROG	0.021174418	0.059362307
2016 Annual	Riverside (SC)	LDT1	65	71 RUNEX	65 ROG	0.065915126	0.004914481
2016 Annual	Riverside (SC)	LDT2	65	71 RUNEX	65 ROG	0.026379047	0.020220244
2016 Annual	Riverside (SS)	LDA	65	71 RUNEX	65 ROG	0.019286888	0.013876046
2016 Annual	Riverside (SS)	LDT1	65	71 RUNEX	65 ROG	0.067321186	0.001299934
2016 Annual	Riverside (SS)	LDT2	65	71 RUNEX	65 ROG	0.026175949	0.005506934
2016 Annual	San Bernardino (MD)	LDA	65	71 RUNEX	65 ROG	0.027877021	0.037633218
2016 Annual	San Bernardino (MD)	LDT1	65	71 RUNEX	65 ROG	0.108601136	0.003105515
2016 Annual	San Bernardino (MD)	LDT2	65	71 RUNEX	65 ROG	0.039939069	0.012959327
2016 Annual	San Bernardino (SC)	LDA	65	71 RUNEX	65 ROG	0.022529963	0.055705475
2016 Annual	San Bernardino (SC)	LDT1	65	71 RUNEX	65 ROG	0.079106918	0.004559031
2016 Annual	San Bernardino (SC)	LDT2	65	71 RUNEX	65 ROG	0.031407217	0.018612462
2016 Annual	Ventura (SCC)	LDA	65	71 RUNEX	65 ROG	0.024414846	0.029237064
2016 Annual	Ventura (SCC)	LDT1	65	71 RUNEX	65 ROG	0.06266413	0.0025598
2016 Annual	Ventura (SCC)	LDT2	65	71 RUNEX	65 ROG	0.02616166	0.010545416
2016 Annual	Imperial (SS)	LDA	65	71 RUNEX	65 SOx	0.003177974	0.007996957
2016 Annual	Imperial (SS)	LDT1	65	71 RUNEX	65 SOx	0.003794923	0.000652497
2016 Annual	Imperial (SS)	LDT2	65	71 RUNEX	65 SOx	0.004320645	0.002773952
2016 Annual	Los Angeles (MD)	LDA	65	71 RUNEX	65 SOx	0.003235586	0.009690318
2016 Annual	Los Angeles (MD)	LDT1	65	71 RUNEX	65 SOx	0.003843129	0.000760411
2016 Annual	Los Angeles (MD)	LDT2	65	71 RUNEX	65 SOx	0.00439273	0.002700399
2016 Annual	Los Angeles (SC)	LDA	65	71 RUNEX	65 SOx	0.00319204	0.352832775
2016 Annual	Los Angeles (SC)	LDT1	65	71 RUNEX	65 SOx	0.003758888	0.030621546
2016 Annual	Los Angeles (SC)	LDT2	65	71 RUNEX	65 SOx	0.004307011	0.127933791
2016 Annual	Orange (SC)	LDA	65	71 RUNEX	65 SOx	0.003161147	0.120260768
2016 Annual	Orange (SC)	LDT1	65	71 RUNEX	65 SOx	0.003698798	0.010281773
2016 Annual	Orange (SC)	LDT2	65	71 RUNEX	65 SOx	0.004273889	0.047935411
2016 Annual	Riverside (MD/MDAQMD)	LDA	65	71 RUNEX	65 SOx	0.003183373	0.001919458
2016 Annual	Riverside (MD/MDAQMD)	LDT1	65	71 RUNEX	65 SOx	0.003826247	0.000173829
2016 Annual	Riverside (MD/MDAQMD)	LDT2	65	71 RUNEX	65 SOx	0.004319389	0.000688394
2016 Annual	Riverside (MD/SCAQMD)	LDA	65	71 RUNEX	65 SOx	0.003193042	0.001843845
2016 Annual	Riverside (MD/SCAQMD)	LDT1	65	71 RUNEX	65 SOx	0.00378347	0.000160748
2016 Annual	Riverside (MD/SCAQMD)	LDT2	65	71 RUNEX	65 SOx	0.004327972	0.000675872
2016 Annual	Riverside (SC)	LDA	65	71 RUNEX	65 SOx	0.003184442	0.059362307
2016 Annual	Riverside (SC)	LDT1	65	71 RUNEX	65 SOx	0.00374834	0.004914481
2016 Annual	Riverside (SC)	LDT2	65	71 RUNEX	65 SOx	0.004278733	0.020220244
2016 Annual	Riverside (SS)	LDA	65	71 RUNEX	65 SOx	0.00315513	0.013876046

0.003472

2016 Annual	Riverside (SS)	LDT1	65	71 RUNEX	65 SOx	0.003747104	0.001299934
2016 Annual	Riverside (SS)	LDT2	65	71 RUNEX	65 SOx	0.004272073	0.005506934
2016 Annual	San Bernardino (MD)	LDA	65	71 RUNEX	65 SOx	0.003188526	0.037633218
2016 Annual	San Bernardino (MD)	LDT1	65	71 RUNEX	65 SOx	0.003781683	0.003105515
2016 Annual	San Bernardino (MD)	LDT2	65	71 RUNEX	65 SOx	0.004316757	0.012959327
2016 Annual	San Bernardino (SC)	LDA	65	71 RUNEX	65 SOx	0.003193551	0.055705475
2016 Annual	San Bernardino (SC)	LDT1	65	71 RUNEX	65 SOx	0.003773653	0.004559031
2016 Annual	San Bernardino (SC)	LDT2	65	71 RUNEX	65 SOx	0.004309976	0.018612462
2016 Annual	Ventura (SCC)	LDA	65	71 RUNEX	65 SOx	0.00318532	0.029237064
2016 Annual	Ventura (SCC)	LDT1	65	71 RUNEX	65 SOx	0.003755364	0.0025598
2016 Annual	Ventura (SCC)	LDT2	65	71 RUNEX	65 SOx	0.004304399	0.010545416

	RUN EF (g/mi)	BTW EF (g/mi)	mi/day	lb/day	employees	total
VOC	0.029673259		395,080,499	25845.1	0.52	25846
Nox	0.115354729		395,080,499	100472.7	1.475	100474
CO	0.967062879		395,080,499	842300.9	5.7759	842307
SOx	0.003472492		395,080,499	3024.5		3025
PM10	0.001843417	0.044749998	395,080,499	40582.3	0.9	40583
PM2.5	0.001704241	0.017749999	395,080,499	16944.4	0.2545	16945

calendar_year	season_month	sub_area	vehicle_class	process	pollutant	emission_rate	VMT%	
2016	Annual	Imperial (SS)	LDA	PMBW	PM10	0.036749836	0.007996957	0.03675
2016	Annual	Imperial (SS)	LDT1	PMBW	PM10	0.036749634	0.000652497	
2016	Annual	Imperial (SS)	LDT2	PMBW	PM10	0.03675	0.002773952	
2016	Annual	Los Angeles (MD)	LDA	PMBW	PM10	0.03675	0.009690318	
2016	Annual	Los Angeles (MD)	LDT1	PMBW	PM10	0.03675	0.000760411	
2016	Annual	Los Angeles (MD)	LDT2	PMBW	PM10	0.03675	0.002700399	
2016	Annual	Los Angeles (SC)	LDA	PMBW	PM10	0.03675	0.352832775	
2016	Annual	Los Angeles (SC)	LDT1	PMBW	PM10	0.03675	0.030621546	
2016	Annual	Los Angeles (SC)	LDT2	PMBW	PM10	0.03675	0.127933791	
2016	Annual	Orange (SC)	LDA	PMBW	PM10	0.03675	0.120260768	
2016	Annual	Orange (SC)	LDT1	PMBW	PM10	0.03675	0.010281773	
2016	Annual	Orange (SC)	LDT2	PMBW	PM10	0.03675	0.047935411	
2016	Annual	Riverside (MD/MDAQMD)	LDA	PMBW	PM10	0.03675	0.001919458	
2016	Annual	Riverside (MD/MDAQMD)	LDT1	PMBW	PM10	0.03675	0.000173829	
2016	Annual	Riverside (MD/MDAQMD)	LDT2	PMBW	PM10	0.03675	0.000688394	
2016	Annual	Riverside (MD/SCAQMD)	LDA	PMBW	PM10	0.03675	0.001843845	
2016	Annual	Riverside (MD/SCAQMD)	LDT1	PMBW	PM10	0.03675	0.000160748	
2016	Annual	Riverside (MD/SCAQMD)	LDT2	PMBW	PM10	0.03675	0.000675872	
2016	Annual	Riverside (SC)	LDA	PMBW	PM10	0.03675	0.059362307	
2016	Annual	Riverside (SC)	LDT1	PMBW	PM10	0.03675	0.004914481	
2016	Annual	Riverside (SC)	LDT2	PMBW	PM10	0.03675	0.020220244	
2016	Annual	Riverside (SS)	LDA	PMBW	PM10	0.03675	0.013876046	
2016	Annual	Riverside (SS)	LDT1	PMBW	PM10	0.03675	0.001299934	
2016	Annual	Riverside (SS)	LDT2	PMBW	PM10	0.03675	0.005506934	
2016	Annual	San Bernardino (MD)	LDA	PMBW	PM10	0.03675	0.037633218	
2016	Annual	San Bernardino (MD)	LDT1	PMBW	PM10	0.03675	0.003105515	
2016	Annual	San Bernardino (MD)	LDT2	PMBW	PM10	0.03675	0.012959327	
2016	Annual	San Bernardino (SC)	LDA	PMBW	PM10	0.03675	0.055705475	
2016	Annual	San Bernardino (SC)	LDT1	PMBW	PM10	0.03675	0.004559031	
2016	Annual	San Bernardino (SC)	LDT2	PMBW	PM10	0.03675	0.018612462	
2016	Annual	Ventura (SCC)	LDA	PMBW	PM10	0.03675	0.029237064	
2016	Annual	Ventura (SCC)	LDT1	PMBW	PM10	0.03675	0.0025598	
2016	Annual	Ventura (SCC)	LDT2	PMBW	PM10	0.03675	0.010545416	
2016	Annual	Imperial (SS)	LDA	PMBW	PM2_5	0.01574993	0.007996957	0.01575

2016 Annual	Imperial (SS)	LDT1	PMBW	PM2_5	0.015749843	0.000652497
2016 Annual	Imperial (SS)	LDT2	PMBW	PM2_5	0.01575	0.002773952
2016 Annual	Los Angeles (MD)	LDA	PMBW	PM2_5	0.01575	0.009690318
2016 Annual	Los Angeles (MD)	LDT1	PMBW	PM2_5	0.01575	0.000760411
2016 Annual	Los Angeles (MD)	LDT2	PMBW	PM2_5	0.01575	0.002700399
2016 Annual	Los Angeles (SC)	LDA	PMBW	PM2_5	0.01575	0.352832775
2016 Annual	Los Angeles (SC)	LDT1	PMBW	PM2_5	0.01575	0.030621546
2016 Annual	Los Angeles (SC)	LDT2	PMBW	PM2_5	0.01575	0.127933791
2016 Annual	Orange (SC)	LDA	PMBW	PM2_5	0.01575	0.120260768
2016 Annual	Orange (SC)	LDT1	PMBW	PM2_5	0.01575	0.010281773
2016 Annual	Orange (SC)	LDT2	PMBW	PM2_5	0.01575	0.047935411
2016 Annual	Riverside (MD/MDAQMD)	LDA	PMBW	PM2_5	0.01575	0.001919458
2016 Annual	Riverside (MD/MDAQMD)	LDT1	PMBW	PM2_5	0.01575	0.000173829
2016 Annual	Riverside (MD/MDAQMD)	LDT2	PMBW	PM2_5	0.01575	0.000688394
2016 Annual	Riverside (MD/SCAQMD)	LDA	PMBW	PM2_5	0.01575	0.001843845
2016 Annual	Riverside (MD/SCAQMD)	LDT1	PMBW	PM2_5	0.01575	0.000160748
2016 Annual	Riverside (MD/SCAQMD)	LDT2	PMBW	PM2_5	0.01575	0.000675872
2016 Annual	Riverside (SC)	LDA	PMBW	PM2_5	0.01575	0.059362307
2016 Annual	Riverside (SC)	LDT1	PMBW	PM2_5	0.01575	0.004914481
2016 Annual	Riverside (SC)	LDT2	PMBW	PM2_5	0.01575	0.020220244
2016 Annual	Riverside (SS)	LDA	PMBW	PM2_5	0.01575	0.013876046
2016 Annual	Riverside (SS)	LDT1	PMBW	PM2_5	0.01575	0.001299934
2016 Annual	Riverside (SS)	LDT2	PMBW	PM2_5	0.01575	0.005506934
2016 Annual	San Bernardino (MD)	LDA	PMBW	PM2_5	0.01575	0.037633218
2016 Annual	San Bernardino (MD)	LDT1	PMBW	PM2_5	0.01575	0.003105515
2016 Annual	San Bernardino (MD)	LDT2	PMBW	PM2_5	0.01575	0.012959327
2016 Annual	San Bernardino (SC)	LDA	PMBW	PM2_5	0.01575	0.055705475
2016 Annual	San Bernardino (SC)	LDT1	PMBW	PM2_5	0.01575	0.004559031
2016 Annual	San Bernardino (SC)	LDT2	PMBW	PM2_5	0.01575	0.018612462
2016 Annual	Ventura (SCC)	LDA	PMBW	PM2_5	0.01575	0.029237064
2016 Annual	Ventura (SCC)	LDT1	PMBW	PM2_5	0.01575	0.0025598
2016 Annual	Ventura (SCC)	LDT2	PMBW	PM2_5	0.01575	0.010545416
2016 Annual	Imperial (SS)	LDA	PMTW	PM10	0.007999964	0.007996957
2016 Annual	Imperial (SS)	LDT1	PMTW	PM10	0.00799992	0.000652497
2016 Annual	Imperial (SS)	LDT2	PMTW	PM10	0.008	0.002773952

0.008

2016 Annual	Los Angeles (MD)	LDA	PMTW	PM10	0.008	0.009690318
2016 Annual	Los Angeles (MD)	LDT1	PMTW	PM10	0.008	0.000760411
2016 Annual	Los Angeles (MD)	LDT2	PMTW	PM10	0.008	0.002700399
2016 Annual	Los Angeles (SC)	LDA	PMTW	PM10	0.008	0.352832775
2016 Annual	Los Angeles (SC)	LDT1	PMTW	PM10	0.008	0.030621546
2016 Annual	Los Angeles (SC)	LDT2	PMTW	PM10	0.008	0.127933791
2016 Annual	Orange (SC)	LDA	PMTW	PM10	0.008	0.120260768
2016 Annual	Orange (SC)	LDT1	PMTW	PM10	0.008	0.010281773
2016 Annual	Orange (SC)	LDT2	PMTW	PM10	0.008	0.047935411
2016 Annual	Riverside (MD/MDAQMD)	LDA	PMTW	PM10	0.008	0.001919458
2016 Annual	Riverside (MD/MDAQMD)	LDT1	PMTW	PM10	0.008	0.000173829
2016 Annual	Riverside (MD/MDAQMD)	LDT2	PMTW	PM10	0.008	0.000688394
2016 Annual	Riverside (MD/SCAQMD)	LDA	PMTW	PM10	0.008	0.001843845
2016 Annual	Riverside (MD/SCAQMD)	LDT1	PMTW	PM10	0.008	0.000160748
2016 Annual	Riverside (MD/SCAQMD)	LDT2	PMTW	PM10	0.008	0.000675872
2016 Annual	Riverside (SC)	LDA	PMTW	PM10	0.008	0.059362307
2016 Annual	Riverside (SC)	LDT1	PMTW	PM10	0.008	0.004914481
2016 Annual	Riverside (SC)	LDT2	PMTW	PM10	0.008	0.020220244
2016 Annual	Riverside (SS)	LDA	PMTW	PM10	0.008	0.013876046
2016 Annual	Riverside (SS)	LDT1	PMTW	PM10	0.008	0.001299934
2016 Annual	Riverside (SS)	LDT2	PMTW	PM10	0.008	0.005506934
2016 Annual	San Bernardino (MD)	LDA	PMTW	PM10	0.008	0.037633218
2016 Annual	San Bernardino (MD)	LDT1	PMTW	PM10	0.008	0.003105515
2016 Annual	San Bernardino (MD)	LDT2	PMTW	PM10	0.008	0.012959327
2016 Annual	San Bernardino (SC)	LDA	PMTW	PM10	0.008	0.055705475
2016 Annual	San Bernardino (SC)	LDT1	PMTW	PM10	0.008	0.004559031
2016 Annual	San Bernardino (SC)	LDT2	PMTW	PM10	0.008	0.018612462
2016 Annual	Ventura (SCC)	LDA	PMTW	PM10	0.008	0.029237064
2016 Annual	Ventura (SCC)	LDT1	PMTW	PM10	0.008	0.0025598
2016 Annual	Ventura (SCC)	LDT2	PMTW	PM10	0.008	0.010545416
2016 Annual	Imperial (SS)	LDA	PMTW	PM2_5	0.001999991	0.007996957
2016 Annual	Imperial (SS)	LDT1	PMTW	PM2_5	0.00199998	0.000652497
2016 Annual	Imperial (SS)	LDT2	PMTW	PM2_5	0.002	0.002773952
2016 Annual	Los Angeles (MD)	LDA	PMTW	PM2_5	0.002	0.009690318
2016 Annual	Los Angeles (MD)	LDT1	PMTW	PM2_5	0.002	0.000760411

0.002



2016 Annual	Los Angeles (MD)	LDT2	PMTW	PM2_5	0.002	0.002700399
2016 Annual	Los Angeles (SC)	LDA	PMTW	PM2_5	0.002	0.352832775
2016 Annual	Los Angeles (SC)	LDT1	PMTW	PM2_5	0.002	0.030621546
2016 Annual	Los Angeles (SC)	LDT2	PMTW	PM2_5	0.002	0.127933791
2016 Annual	Orange (SC)	LDA	PMTW	PM2_5	0.002	0.120260768
2016 Annual	Orange (SC)	LDT1	PMTW	PM2_5	0.002	0.010281773
2016 Annual	Orange (SC)	LDT2	PMTW	PM2_5	0.002	0.047935411
2016 Annual	Riverside (MD/MDAQMD)	LDA	PMTW	PM2_5	0.002	0.001919458
2016 Annual	Riverside (MD/MDAQMD)	LDT1	PMTW	PM2_5	0.002	0.000173829
2016 Annual	Riverside (MD/MDAQMD)	LDT2	PMTW	PM2_5	0.002	0.000688394
2016 Annual	Riverside (MD/SCAQMD)	LDA	PMTW	PM2_5	0.002	0.001843845
2016 Annual	Riverside (MD/SCAQMD)	LDT1	PMTW	PM2_5	0.002	0.000160748
2016 Annual	Riverside (MD/SCAQMD)	LDT2	PMTW	PM2_5	0.002	0.000675872
2016 Annual	Riverside (SC)	LDA	PMTW	PM2_5	0.002	0.059362307
2016 Annual	Riverside (SC)	LDT1	PMTW	PM2_5	0.002	0.004914481
2016 Annual	Riverside (SC)	LDT2	PMTW	PM2_5	0.002	0.020220244
2016 Annual	Riverside (SS)	LDA	PMTW	PM2_5	0.002	0.013876046
2016 Annual	Riverside (SS)	LDT1	PMTW	PM2_5	0.002	0.001299934
2016 Annual	Riverside (SS)	LDT2	PMTW	PM2_5	0.002	0.005506934
2016 Annual	San Bernardino (MD)	LDA	PMTW	PM2_5	0.002	0.037633218
2016 Annual	San Bernardino (MD)	LDT1	PMTW	PM2_5	0.002	0.003105515
2016 Annual	San Bernardino (MD)	LDT2	PMTW	PM2_5	0.002	0.012959327
2016 Annual	San Bernardino (SC)	LDA	PMTW	PM2_5	0.002	0.055705475
2016 Annual	San Bernardino (SC)	LDT1	PMTW	PM2_5	0.002	0.004559031
2016 Annual	San Bernardino (SC)	LDT2	PMTW	PM2_5	0.002	0.018612462
2016 Annual	Ventura (SCC)	LDA	PMTW	PM2_5	0.002	0.029237064
2016 Annual	Ventura (SCC)	LDT1	PMTW	PM2_5	0.002	0.0025598
2016 Annual	Ventura (SCC)	LDT2	PMTW	PM2_5	0.002	0.010545416

PM10 (g/mi)      pm2.5 g/mi  
0.044749998      0.01775

calendar_y	season	mc	sub_area	vehicle_cla	fuel	temperatu	relative_hu	process	speed_tim	pollutant	emission_rate
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	25	CO	13.2767
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	30	CO	11.36325
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	35	CO	9.872873
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	40	CO	8.754785
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	45	CO	7.984403
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	50	CO	7.548516
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	25	NOx	9.519025
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	30	NOx	9.261024
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	35	NOx	9.077266
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	40	NOx	8.964887
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	45	NOx	8.922432
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	50	NOx	8.949085
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	25	PM10	0.011876
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	30	PM10	0.009973
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	35	PM10	0.008707
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	40	PM10	0.008076
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	45	PM10	0.008077
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	50	PM10	0.008709
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	25	PM2_5	0.011363
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	30	PM2_5	0.009541
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	35	PM2_5	0.00833
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	40	PM2_5	0.007726
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	45	PM2_5	0.007727
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	50	PM2_5	0.008332
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	25	ROG	0.655145
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	30	ROG	0.531237
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	35	ROG	0.434947
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	40	ROG	0.366115
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	45	ROG	0.324663
2016	Annual		Los Angele:	UBUS	NG	65	71	RUNEX	50	ROG	0.310549

VOC	0.43711	15769.1	15.19582
NOX	9.11562	15769.1	316.8984
CO	9.800088	15769.1	340.6935
SOX		15769.1	
PM10	0.863056	15769.1	30.00357
PM25	0.372617	15769.1	12.95377

2016	Annual	Los Angele:	UBUS	NG	PMTW	PM10	0.012
2016	Annual	Los Angele:	UBUS	NG	PMTW	PM2_5	0.003
2016	Annual	Los Angele:	UBUS	NG	PMBW	PM10	0.84182
2016	Annual	Los Angele:	UBUS	NG	PMBW	PM2_5	0.36078

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	25	CO	5.189624192	3.455506127
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	30	CO	4.157189122	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	35	CO	3.454654043	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	40	CO	2.957697096	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	45	CO	2.606158497	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	50	CO	2.36771381	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	25	NOx	1.959961879	1.809858576
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	30	NOx	1.867688041	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	35	NOx	1.80389521	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	40	NOx	1.761589223	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	45	NOx	1.73721914	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	50	NOx	1.728797961	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	25	PM10	0.002888114	0.002257659
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	30	PM10	0.002462312	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	35	PM10	0.002172263	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	40	PM10	0.00200918	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	45	PM10	0.001968099	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	50	PM10	0.002045985	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	25	PM2_5	0.002763175	0.002159994
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	30	PM2_5	0.002355794	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	35	PM2_5	0.002078292	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	40	PM2_5	0.001922264	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	45	PM2_5	0.00188296	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	50	PM2_5	0.001957476	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	25	ROG	0.124779489	0.082746731
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	30	ROG	0.100726522	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	35	ROG	0.082333325	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	40	ROG	0.069222949	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	45	ROG	0.061212924	
2035	Annual	Los Angeles (SC)	UBUS	NG	65	71	RUNEX	50	ROG	0.058205177	

	EF (g/mi)	Project (mi/day)	No Project (mi/day)	Project (lb/day)	No Project (lb/day)
VOC	0.082746731	15244.526	14958.12259	2.780940679	2.728694326
Nox	1.809858576	15244.526	14958.12259	60.82547644	59.68273025
CO	3.455506127	15244.526	14958.12259	116.1321715	113.9503621
SOX					
PM10	0.856077659	15244.526	14958.12259	28.77093944	28.2304113
PM25	0.365939994	15244.526	14958.12259	12.29846064	12.06740583

2035	Annual	Los Angeles (SC)	UBUS	NG	PMTW	PM10	0.012
2035	Annual	Los Angeles (SC)	UBUS	NG	PMTW	PM2_5	0.003
2035	Annual	Los Angeles (SC)	UBUS	NG	PMBW	PM	0.859
2035	Annual	Los Angeles (SC)	UBUS	NG	PMBW	PM10	0.84182
2035	Annual	Los Angeles (SC)	UBUS	NG	PMBW	PM2_5	0.36078

# **Mobile Source Emissions Modeling Greenhouse Gases**

calendar_year	season_month	sub_area	vehicle_class	speed_time	pollutant	emission_rate	VMT %	EF (g/mi)
2035	Annual	Imperial (SS)	LDA	65	CH4	0.020787959	0.009877221	0.001793082
2035	Annual	Imperial (SS)	LDT1	65	CH4	0.002980746	0.000521618	
2035	Annual	Imperial (SS)	LDT2	65	CH4	0.002457226	0.002940994	
2035	Annual	Los Angeles (MD)	LDA	65	CH4	0.001528569	0.010217975	
2035	Annual	Los Angeles (MD)	LDT1	65	CH4	0.003396787	0.000492475	
2035	Annual	Los Angeles (MD)	LDT2	65	CH4	0.002212863	0.002317789	
2035	Annual	Los Angeles (SC)	LDA	65	CH4	0.001392104	0.321664034	
2035	Annual	Los Angeles (SC)	LDT1	65	CH4	0.002629064	0.026399111	
2035	Annual	Los Angeles (SC)	LDT2	65	CH4	0.002156385	0.127325181	
2035	Annual	Orange (SC)	LDA	65	CH4	0.001258854	0.117081322	
2035	Annual	Orange (SC)	LDT1	65	CH4	0.002104543	0.008676152	
2035	Annual	Orange (SC)	LDT2	65	CH4	0.001918209	0.042893424	
2035	Annual	Riverside (MD/MDAQMD)	LDA	65	CH4	0.00156712	0.002527478	
2035	Annual	Riverside (MD/MDAQMD)	LDT1	65	CH4	0.003146461	0.000156624	
2035	Annual	Riverside (MD/MDAQMD)	LDT2	65	CH4	0.002496978	0.00086271	
2035	Annual	Riverside (MD/SCAQMD)	LDA	65	CH4	0.001602872	0.002337115	
2035	Annual	Riverside (MD/SCAQMD)	LDT1	65	CH4	0.003048145	0.000149227	
2035	Annual	Riverside (MD/SCAQMD)	LDT2	65	CH4	0.002565373	0.00080804	
2035	Annual	Riverside (SC)	LDA	65	CH4	0.001324574	0.076910259	
2035	Annual	Riverside (SC)	LDT1	65	CH4	0.002245391	0.004323207	
2035	Annual	Riverside (SC)	LDT2	65	CH4	0.001978036	0.024608766	
2035	Annual	Riverside (SS)	LDA	65	CH4	0.001229491	0.016762281	
2035	Annual	Riverside (SS)	LDT1	65	CH4	0.002276344	0.001266718	
2035	Annual	Riverside (SS)	LDT2	65	CH4	0.002029516	0.007187711	
2035	Annual	San Bernardino (MD)	LDA	65	CH4	0.001458095	0.044096218	
2035	Annual	San Bernardino (MD)	LDT1	65	CH4	0.002710736	0.00249017	
2035	Annual	San Bernardino (MD)	LDT2	65	CH4	0.002277209	0.013805809	
2035	Annual	San Bernardino (SC)	LDA	65	CH4	0.001326221	0.063228894	
2035	Annual	San Bernardino (SC)	LDT1	65	CH4	0.002478691	0.003725151	
2035	Annual	San Bernardino (SC)	LDT2	65	CH4	0.002109194	0.02101347	
2035	Annual	Ventura (SCC)	LDA	65	CH4	0.00134173	0.031698946	
2035	Annual	Ventura (SCC)	LDT1	65	CH4	0.002307604	0.001966816	
2035	Annual	Ventura (SCC)	LDT2	65	CH4	0.001932721	0.009667096	
2035	Annual	Imperial (SS)	LDA	65	CO2	173.0785943	0.009877221	188.2534939
2035	Annual	Imperial (SS)	LDT1	65	CO2	224.4388556	0.000521618	
2035	Annual	Imperial (SS)	LDT2	65	CO2	216.435397	0.002940994	
2035	Annual	Los Angeles (MD)	LDA	65	CO2	178.6855098	0.010217975	
2035	Annual	Los Angeles (MD)	LDT1	65	CO2	234.250486	0.000492475	
2035	Annual	Los Angeles (MD)	LDT2	65	CO2	218.8379198	0.002317789	
2035	Annual	Los Angeles (SC)	LDA	65	CO2	175.6729907	0.321664034	
2035	Annual	Los Angeles (SC)	LDT1	65	CO2	230.2318485	0.026399111	
2035	Annual	Los Angeles (SC)	LDT2	65	CO2	219.1276113	0.127325181	

2035 Annual	Orange (SC)	LDA	65 CO2	172.9522457	0.117081322	
2035 Annual	Orange (SC)	LDT1	65 CO2	224.635524	0.008676152	
2035 Annual	Orange (SC)	LDT2	65 CO2	214.1954873	0.042893424	
2035 Annual	Riverside (MD/MDAQMD)	LDA	65 CO2	173.8902501	0.002527478	
2035 Annual	Riverside (MD/MDAQMD)	LDT1	65 CO2	225.2630064	0.000156624	
2035 Annual	Riverside (MD/MDAQMD)	LDT2	65 CO2	217.2544673	0.00086271	
2035 Annual	Riverside (MD/SCAQMD)	LDA	65 CO2	174.4421006	0.002337115	
2035 Annual	Riverside (MD/SCAQMD)	LDT1	65 CO2	226.0972994	0.000149227	
2035 Annual	Riverside (MD/SCAQMD)	LDT2	65 CO2	218.6149048	0.00080804	
2035 Annual	Riverside (SC)	LDA	65 CO2	174.4353027	0.076910259	
2035 Annual	Riverside (SC)	LDT1	65 CO2	224.2732287	0.004323207	
2035 Annual	Riverside (SC)	LDT2	65 CO2	215.5572751	0.024608766	
2035 Annual	Riverside (SS)	LDA	65 CO2	172.3024705	0.016762281	
2035 Annual	Riverside (SS)	LDT1	65 CO2	225.7463465	0.001266718	
2035 Annual	Riverside (SS)	LDT2	65 CO2	217.4117746	0.007187711	
2035 Annual	San Bernardino (MD)	LDA	65 CO2	174.7379103	0.044096218	
2035 Annual	San Bernardino (MD)	LDT1	65 CO2	225.5296687	0.00249017	
2035 Annual	San Bernardino (MD)	LDT2	65 CO2	217.4775751	0.013805809	
2035 Annual	San Bernardino (SC)	LDA	65 CO2	174.3305334	0.063228894	
2035 Annual	San Bernardino (SC)	LDT1	65 CO2	227.1255471	0.003725151	
2035 Annual	San Bernardino (SC)	LDT2	65 CO2	218.2710733	0.02101347	
2035 Annual	Ventura (SCC)	LDA	65 CO2	174.3926158	0.031698946	
2035 Annual	Ventura (SCC)	LDT1	65 CO2	225.631664	0.001966816	
2035 Annual	Ventura (SCC)	LDT2	65 CO2	213.7240984	0.009667096	
2035 Annual	Imperial (SS)	LDA	65 NOx	0.172494168	0.009877221	0.022141569
2035 Annual	Imperial (SS)	LDT1	65 NOx	0.037894485	0.000521618	
2035 Annual	Imperial (SS)	LDT2	65 NOx	0.032891006	0.002940994	
2035 Annual	Los Angeles (MD)	LDA	65 NOx	0.019255405	0.010217975	
2035 Annual	Los Angeles (MD)	LDT1	65 NOx	0.040272666	0.000492475	
2035 Annual	Los Angeles (MD)	LDT2	65 NOx	0.028937314	0.002317789	
2035 Annual	Los Angeles (SC)	LDA	65 NOx	0.017831955	0.321664034	
2035 Annual	Los Angeles (SC)	LDT1	65 NOx	0.031877926	0.026399111	
2035 Annual	Los Angeles (SC)	LDT2	65 NOx	0.027733834	0.127325181	
2035 Annual	Orange (SC)	LDA	65 NOx	0.016573172	0.117081322	
2035 Annual	Orange (SC)	LDT1	65 NOx	0.026303056	0.008676152	
2035 Annual	Orange (SC)	LDT2	65 NOx	0.024426856	0.042893424	
2035 Annual	Riverside (MD/MDAQMD)	LDA	65 NOx	0.020761176	0.002527478	
2035 Annual	Riverside (MD/MDAQMD)	LDT1	65 NOx	0.039729531	0.000156624	
2035 Annual	Riverside (MD/MDAQMD)	LDT2	65 NOx	0.033371812	0.00086271	
2035 Annual	Riverside (MD/SCAQMD)	LDA	65 NOx	0.02117434	0.002337115	
2035 Annual	Riverside (MD/SCAQMD)	LDT1	65 NOx	0.038722932	0.000149227	
2035 Annual	Riverside (MD/SCAQMD)	LDT2	65 NOx	0.03437075	0.00080804	
2035 Annual	Riverside (SC)	LDA	65 NOx	0.017256966	0.076910259	



calendar_year	season_month	sub_area	vehicle_class	speed_time	pollutant	emission_rate	VMT %	EF (g/mi)
2016	Annual	Imperial (SS)	LDA	65	CH4	0.031182146	0.009877221	0.008933724
2016	Annual	Imperial (SS)	LDT1	65	CH4	0.039672911	0.000521618	
2016	Annual	Imperial (SS)	LDT2	65	CH4	0.015393277	0.002940994	
2016	Annual	Los Angeles (MD)	LDA	65	CH4	0.00850409	0.010217975	
2016	Annual	Los Angeles (MD)	LDT1	65	CH4	0.027055936	0.000492475	
2016	Annual	Los Angeles (MD)	LDT2	65	CH4	0.012114805	0.002317789	
2016	Annual	Los Angeles (SC)	LDA	65	CH4	0.007869243	0.321664034	
2016	Annual	Los Angeles (SC)	LDT1	65	CH4	0.022424728	0.026399111	
2016	Annual	Los Angeles (SC)	LDT2	65	CH4	0.010414821	0.127325181	
2016	Annual	Orange (SC)	LDA	65	CH4	0.006182012	0.117081322	
2016	Annual	Orange (SC)	LDT1	65	CH4	0.01444126	0.008676152	
2016	Annual	Orange (SC)	LDT2	65	CH4	0.007641536	0.042893424	
2016	Annual	Riverside (MD/MDAQMD)	LDA	65	CH4	0.009961604	0.002527478	
2016	Annual	Riverside (MD/MDAQMD)	LDT1	65	CH4	0.0444234	0.000156624	
2016	Annual	Riverside (MD/MDAQMD)	LDT2	65	CH4	0.015018122	0.00086271	
2016	Annual	Riverside (MD/SCAQMD)	LDA	65	CH4	0.009943916	0.002337115	
2016	Annual	Riverside (MD/SCAQMD)	LDT1	65	CH4	0.03119444	0.000149227	
2016	Annual	Riverside (MD/SCAQMD)	LDT2	65	CH4	0.013904014	0.00080804	
2016	Annual	Riverside (SC)	LDA	65	CH4	0.006569323	0.076910259	
2016	Annual	Riverside (SC)	LDT1	65	CH4	0.019044164	0.004323207	
2016	Annual	Riverside (SC)	LDT2	65	CH4	0.008666934	0.024608766	
2016	Annual	Riverside (SS)	LDA	65	CH4	0.006269704	0.016762281	
2016	Annual	Riverside (SS)	LDT1	65	CH4	0.018467697	0.001266718	
2016	Annual	Riverside (SS)	LDT2	65	CH4	0.008540446	0.007187711	
2016	Annual	San Bernardino (MD)	LDA	65	CH4	0.008876825	0.044096218	
2016	Annual	San Bernardino (MD)	LDT1	65	CH4	0.029962039	0.00249017	
2016	Annual	San Bernardino (MD)	LDT2	65	CH4	0.01309369	0.013805809	
2016	Annual	San Bernardino (SC)	LDA	65	CH4	0.006994111	0.063228894	
2016	Annual	San Bernardino (SC)	LDT1	65	CH4	0.021580593	0.003725151	
2016	Annual	San Bernardino (SC)	LDT2	65	CH4	0.010031716	0.02101347	
2016	Annual	Ventura (SCC)	LDA	65	CH4	0.007221126	0.031698946	
2016	Annual	Ventura (SCC)	LDT1	65	CH4	0.017978142	0.001966816	
2016	Annual	Ventura (SCC)	LDT2	65	CH4	0.008878791	0.009667096	
2016	Annual	Imperial (SS)	LDA	65	CO2	315.6992498	0.009877221	348.8018745
2016	Annual	Imperial (SS)	LDT1	65	CO2	373.371841	0.000521618	
2016	Annual	Imperial (SS)	LDT2	65	CO2	430.4785209	0.002940994	
2016	Annual	Los Angeles (MD)	LDA	65	CO2	322.7961255	0.010217975	
2016	Annual	Los Angeles (MD)	LDT1	65	CO2	379.4095962	0.000492475	
2016	Annual	Los Angeles (MD)	LDT2	65	CO2	437.8869908	0.002317789	



2016 Annual	Los Angeles (SC)	LDA	65 CO2	318.5333901	0.321664034	
2016 Annual	Los Angeles (SC)	LDT1	65 CO2	372.1030883	0.026399111	
2016 Annual	Los Angeles (SC)	LDT2	65 CO2	429.7236262	0.127325181	
2016 Annual	Orange (SC)	LDA	65 CO2	315.7727498	0.117081322	
2016 Annual	Orange (SC)	LDT1	65 CO2	367.8885136	0.008676152	
2016 Annual	Orange (SC)	LDT2	65 CO2	426.9623779	0.042893424	
2016 Annual	Riverside (MD/MDAQMD)	LDA	65 CO2	317.557737	0.002527478	
2016 Annual	Riverside (MD/MDAQMD)	LDT1	65 CO2	375.4554369	0.000156624	
2016 Annual	Riverside (MD/MDAQMD)	LDT2	65 CO2	430.4286208	0.00086271	
2016 Annual	Riverside (MD/SCAQMD)	LDA	65 CO2	318.5241181	0.002337115	
2016 Annual	Riverside (MD/SCAQMD)	LDT1	65 CO2	373.8159643	0.000149227	
2016 Annual	Riverside (MD/SCAQMD)	LDT2	65 CO2	431.5378692	0.00080804	
2016 Annual	Riverside (SC)	LDA	65 CO2	318.0300594	0.076910259	
2016 Annual	Riverside (SC)	LDT1	65 CO2	371.9701415	0.004323207	
2016 Annual	Riverside (SC)	LDT2	65 CO2	427.2216004	0.024608766	
2016 Annual	Riverside (SS)	LDA	65 CO2	315.156757	0.016762281	
2016 Annual	Riverside (SS)	LDT1	65 CO2	371.8497787	0.001266718	
2016 Annual	Riverside (SS)	LDT2	65 CO2	426.5664047	0.007187711	
2016 Annual	San Bernardino (MD)	LDA	65 CO2	318.1974582	0.044096218	
2016 Annual	San Bernardino (MD)	LDT1	65 CO2	373.656692	0.00249017	
2016 Annual	San Bernardino (MD)	LDT2	65 CO2	430.4781118	0.013805809	
2016 Annual	San Bernardino (SC)	LDA	65 CO2	318.8498544	0.063228894	
2016 Annual	San Bernardino (SC)	LDT1	65 CO2	373.8970219	0.003725151	
2016 Annual	San Bernardino (SC)	LDT2	65 CO2	430.1016426	0.02101347	
2016 Annual	Ventura (SCC)	LDA	65 CO2	318.0046567	0.031698946	
2016 Annual	Ventura (SCC)	LDT1	65 CO2	372.8441636	0.001966816	
2016 Annual	Ventura (SCC)	LDT2	65 CO2	429.7803356	0.009667096	
2016 Annual	Imperial (SS)	LDA	65 NOx	0.27018523	0.009877221	0.114082365
2016 Annual	Imperial (SS)	LDT1	65 NOx	0.468371338	0.000521618	
2016 Annual	Imperial (SS)	LDT2	65 NOx	0.231011069	0.002940994	
2016 Annual	Los Angeles (MD)	LDA	65 NOx	0.100102206	0.010217975	
2016 Annual	Los Angeles (MD)	LDT1	65 NOx	0.352773015	0.000492475	
2016 Annual	Los Angeles (MD)	LDT2	65 NOx	0.188962703	0.002317789	
2016 Annual	Los Angeles (SC)	LDA	65 NOx	0.092033731	0.321664034	
2016 Annual	Los Angeles (SC)	LDT1	65 NOx	0.29658873	0.026399111	
2016 Annual	Los Angeles (SC)	LDT2	65 NOx	0.160423111	0.127325181	
2016 Annual	Orange (SC)	LDA	65 NOx	0.073333399	0.117081322	
2016 Annual	Orange (SC)	LDT1	65 NOx	0.188302729	0.008676152	
2016 Annual	Orange (SC)	LDT2	65 NOx	0.115731722	0.042893424	
2016 Annual	Riverside (MD/MDAQMD)	LDA	65 NOx	0.112211237	0.002527478	



calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		25 CH4	3.933740521
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		30 CH4	3.176293204
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		35 CH4	2.596247842
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		40 CH4	2.182844138
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		45 CH4	1.930873148
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		50 CH4	1.83753508
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		25 CO2	1744.015529
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		30 CO2	1637.022292
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		35 CO2	1548.231171
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		40 CO2	1477.642164
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		45 CO2	1425.255273
2016	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		50 CO2	1391.070497
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		25 CH4	1.297637866
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		30 CH4	1.016655457
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		35 CH4	0.821009418
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		40 CH4	0.684401053
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		45 CH4	0.594104165
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		50 CH4	0.543280767
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		25 CO2	1611.208606
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		30 CO2	1512.362912
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		35 CO2	1430.333242
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		40 CO2	1365.119594
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		45 CO2	1316.721969
2035	Annual	Los Angeles (SC)	UBUS	NG	65		71 RUNEX		50 CO2	1285.140366

existing 9223.228245 No Project 7866.369659

2.609588989 15769.09324 g/day 41150.85208 375.5015253 0.826181454 14958.12259 12358.12347 112.7678767 g/day

1537.206154 15769.09324 g/day 24240347.18 8847.72672 1420.147782 14958.12259 21242744.61 7753.601783 g/day

Project 8016.987164

g/mi mi/day g/day 0.826181454 15244.526 12594.74466 114.927045

1420.147782 g/day 15244.5 21649479.78 7902.060119

calendar_year	season_month	sub_area	vehicle_class	fuel	speed_time	pollutant	emission_rate		
2035	Annual	Los Angeles (SC)	LHD1	Dsl	25	CH4	0.00325813	0.227227315	0.003311721
2035	Annual	Los Angeles (SC)	LHD2	Dsl	25	CH4	0.002999423	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	25	CH4	0.004006675	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	25	CH4	0.002143774	0.230373988	
2035	Annual	Los Angeles (SC)	LHD1	Dsl	30	CH4	0.002490391	0.227227315	0.002563569
2035	Annual	Los Angeles (SC)	LHD2	Dsl	30	CH4	0.002271353	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	30	CH4	0.003122549	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	30	CH4	0.001670721	0.230373988	
2035	Annual	Los Angeles (SC)	LHD1	Dsl	35	CH4	0.002004361	0.227227315	0.002092491
2035	Annual	Los Angeles (SC)	LHD2	Dsl	35	CH4	0.001810727	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	35	CH4	0.00256726	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	35	CH4	0.001373614	0.230373988	g/mi
2035	Annual	Los Angeles (SC)	LHD1	Dsl	40	CH4	0.001676409	0.227227315	0.001793864
2035	Annual	Los Angeles (SC)	LHD2	Dsl	40	CH4	0.001497315	0.095010612	0.002056213
2035	Annual	Los Angeles (SC)	LHD1	Gas	40	CH4	0.00222672	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	40	CH4	0.001191408	0.230373988	
2035	Annual	Los Angeles (SC)	LHD1	Dsl	45	CH4	0.001446281	0.227227315	0.001612263
2035	Annual	Los Angeles (SC)	LHD2	Dsl	45	CH4	0.001272855	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	45	CH4	0.002037491	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	45	CH4	0.001090161	0.230373988	
2035	Annual	Los Angeles (SC)	LHD1	Dsl	50	CH4	0.001281927	0.227227315	0.001518736
2035	Annual	Los Angeles (SC)	LHD2	Dsl	50	CH4	0.001106103	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	50	CH4	0.001966803	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	50	CH4	0.001052339	0.230373988	
2035	Annual	Los Angeles (SC)	LHD1	Dsl	55	CH4	0.00116564	0.227227315	0.001500848
2035	Annual	Los Angeles (SC)	LHD2	Dsl	55	CH4	0.00097909	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	55	CH4	0.002002908	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	55	CH4	0.001071657	0.230373988	
2035	Annual	Los Angeles (SC)	LHD1	Dsl	25	CO2	472.8753761	0.227227315	659.0298379
2035	Annual	Los Angeles (SC)	LHD2	Dsl	25	CO2	536.5189839	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	25	CO2	709.4884593	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	25	CO2	795.1763882	0.230373988	
2035	Annual	Los Angeles (SC)	LHD1	Dsl	30	CO2	429.4219631	0.227227315	597.1970904
2035	Annual	Los Angeles (SC)	LHD2	Dsl	30	CO2	483.8545438	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	30	CO2	643.9054925	0.447388084	
2035	Annual	Los Angeles (SC)	LHD2	Gas	30	CO2	718.7171201	0.230373988	
2035	Annual	Los Angeles (SC)	LHD1	Dsl	35	CO2	429.4219631	0.227227315	597.1970904
2035	Annual	Los Angeles (SC)	LHD2	Dsl	35	CO2	483.8545438	0.095010612	
2035	Annual	Los Angeles (SC)	LHD1	Gas	35	CO2	643.9054925	0.447388084	

2035 Annual	Los Angeles (SC)	LHD2	Gas	35 CO2	718.7171201	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	40 CO2	417.6660054	0.227227315	587.9819567	609.1547259
2035 Annual	Los Angeles (SC)	LHD2	Dsl	40 CO2	466.1818763	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	40 CO2	641.4855033	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	40 CO2	702.2999292	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	45 CO2	407.400324	0.227227315	578.8018083	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	45 CO2	448.1152877	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	45 CO2	638.5396134	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	45 CO2	685.7484449	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	50 CO2	427.1047852	0.227227315	607.157259	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	50 CO2	464.620128	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	50 CO2	673.3873361	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	50 CO2	714.9160956	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	55 CO2	446.3093437	0.227227315	636.7180387	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	55 CO2	480.9042112	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	55 CO2	709.4884593	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	55 CO2	747.4658049	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	25 NOx	0.243763746	0.227227315	0.113523397	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	25 NOx	0.105451463	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	25 NOx	0.085879852	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	25 NOx	0.042074998	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	30 NOx	0.23831081	0.227227315	0.107710015	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	30 NOx	0.0946014	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	30 NOx	0.079555133	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	30 NOx	0.038976337	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	35 NOx	0.237315668	0.227227315	0.10422596	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	35 NOx	0.087849139	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	35 NOx	0.074885125	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	35 NOx	0.036688366	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	40 NOx	0.238921659	0.227227315	0.102348469	0.104958267
2035 Annual	Los Angeles (SC)	LHD2	Dsl	40 NOx	0.083464893	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	40 NOx	0.071626132	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	40 NOx	0.035091693	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	45 NOx	0.24217879	0.227227315	0.101686118	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	45 NOx	0.080569054	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	45 NOx	0.069613968	0.447388084		
2035 Annual	Los Angeles (SC)	LHD2	Gas	45 NOx	0.034105876	0.230373988		
2035 Annual	Los Angeles (SC)	LHD1	Dsl	50 NOx	0.246543433	0.227227315	0.102012872	
2035 Annual	Los Angeles (SC)	LHD2	Dsl	50 NOx	0.078667096	0.095010612		
2035 Annual	Los Angeles (SC)	LHD1	Gas	50 NOx	0.068749529	0.447388084		

2035 Annual	Los Angeles (SC)	LHD2	Gas	50 NOx	0.033682363	0.230373988	
2035 Annual	Los Angeles (SC)	LHD1	Dsl	55 NOx	0.251681913	0.227227315	0.10320104
2035 Annual	Los Angeles (SC)	LHD2	Dsl	55 NOx	0.077460167	0.095010612	
2035 Annual	Los Angeles (SC)	LHD1	Gas	55 NOx	0.068990912	0.447388084	
2035 Annual	Los Angeles (SC)	LHD2	Gas	55 NOx	0.033800623	0.230373988	

	mi/day	gwp	conversion	days/yr	MTCO2e/yr
CO2	609.1547259	500	1	0.000001	365 111.1707375
CH4	0.002056213	500	25	0.000001	365 0.009381473

3.25737E-05

calendar_year	season_month	sub_area	vehicle_class	fuel	speed_time	pollutant	emission_rate	vmt%		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	25	CH4	0.00654727	0.486714142	0.019538305	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	25	CH4	0.005605992	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	25	CH4	0.043771777	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	25	CH4	0.027291346	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	30	CH4	0.005347357	0.486714142	0.015824692	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	30	CH4	0.004539052	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	30	CH4	0.035459091	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	30	CH4	0.021922859	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	35	CH4	0.004583045	0.486714142	0.013471308	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	35	CH4	0.003860135	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	35	CH4	0.030194743	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	35	CH4	0.018530006	0.129414069		g/mi
2016	Annual	Los Angeles (SC)	LHD1	Dsl	40	CH4	0.004109209	0.486714142	0.012041996	0.01354031
2016	Annual	Los Angeles (SC)	LHD2	Dsl	40	CH4	0.003433068	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	40	CH4	0.027017538	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	40	CH4	0.016474166	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	45	CH4	0.003849754	0.486714142	0.01129743	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	45	CH4	0.003187508	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	45	CH4	0.025394169	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	45	CH4	0.015400807	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	50	CH4	0.003768242	0.486714142	0.011121292	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	50	CH4	0.003089031	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	50	CH4	0.025065829	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	50	CH4	0.015134888	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	55	CH4	0.003855994	0.486714142	0.011487147	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	55	CH4	0.003127105	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	55	CH4	0.025977549	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	55	CH4	0.015632018	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	25	CO2	536.429585	0.486714142	650.4780913	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	25	CO2	611.7886443	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	25	CO2	764.3292558	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	25	CO2	864.7043893	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	30	CO2	487.1360556	0.486714142	589.7108806	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	30	CO2	551.7357712	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	30	CO2	693.6769717	0.279511867		
2016	Annual	Los Angeles (SC)	LHD2	Gas	30	CO2	781.5597365	0.129414069		
2016	Annual	Los Angeles (SC)	LHD1	Dsl	35	CO2	487.1360556	0.486714142	589.7108806	
2016	Annual	Los Angeles (SC)	LHD2	Dsl	35	CO2	551.7357712	0.104359922		
2016	Annual	Los Angeles (SC)	LHD1	Gas	35	CO2	693.6769717	0.279511867		

2016 Annual	Los Angeles (SC)	LHD2	Gas	35 CO2	781.5597365	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	40 CO2	473.8001032	0.486714142	578.0779355	598.8549088
2016 Annual	Los Angeles (SC)	LHD2	Dsl	40 CO2	531.5837587	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	40 CO2	691.0699265	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	40 CO2	763.7070723	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	45 CO2	462.1547194	0.486714142	567.0436803	
2016 Annual	Los Angeles (SC)	LHD2	Dsl	45 CO2	510.9825608	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	45 CO2	687.8963302	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	45 CO2	745.7083724	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	50 CO2	484.5074501	0.486714142	594.4851592	
2016 Annual	Los Angeles (SC)	LHD2	Dsl	50 CO2	529.8029086	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	50 CO2	725.4376513	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	50 CO2	777.426361	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	55 CO2	506.2930915	0.486714142	622.4777337	
2016 Annual	Los Angeles (SC)	LHD2	Dsl	55 CO2	548.3715287	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	55 CO2	764.3292558	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	55 CO2	812.8221259	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	25 NOx	2.614020277	0.486714142	1.6521052	
2016 Annual	Los Angeles (SC)	LHD2	Dsl	25 NOx	2.010657323	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	25 NOx	0.447601671	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	25 NOx	0.346813488	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	30 NOx	2.716835733	0.486714142	1.701044565	
2016 Annual	Los Angeles (SC)	LHD2	Dsl	30 NOx	2.081926013	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	30 NOx	0.42613524	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	30 NOx	0.327187771	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	35 NOx	2.826247145	0.486714142	1.756592125	
2016 Annual	Los Angeles (SC)	LHD2	Dsl	35 NOx	2.160264851	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	35 NOx	0.411515078	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	35 NOx	0.313329554	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	40 NOx	2.939945339	0.486714142	1.816957972	1.824902741
2016 Annual	Los Angeles (SC)	LHD2	Dsl	40 NOx	2.243044832	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	40 NOx	0.402733235	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	40 NOx	0.304389604	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	45 NOx	3.056644981	0.486714142	1.881103513	
2016 Annual	Los Angeles (SC)	LHD2	Dsl	45 NOx	2.328845968	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	45 NOx	0.399107868	0.279511867		
2016 Annual	Los Angeles (SC)	LHD2	Gas	45 NOx	0.299794346	0.129414069		
2016 Annual	Los Angeles (SC)	LHD1	Dsl	50 NOx	3.175442897	0.486714142	1.948329641	
2016 Annual	Los Angeles (SC)	LHD2	Dsl	50 NOx	2.416734848	0.104359922		
2016 Annual	Los Angeles (SC)	LHD1	Gas	50 NOx	0.400220856	0.279511867		



2016 Annual	Los Angeles (SC)	LHD2	Gas	50 NOx	0.299194193	0.129414069
2016 Annual	Los Angeles (SC)	LHD1	Dsl	55 NOx	3.295695775	0.486714142 2.018186168
2016 Annual	Los Angeles (SC)	LHD2	Dsl	55 NOx	2.506074445	0.104359922
2016 Annual	Los Angeles (SC)	LHD1	Gas	55 NOx	0.405889476	0.279511867
2016 Annual	Los Angeles (SC)	LHD2	Gas	55 NOx	0.30243828	0.129414069

	g/mi	mi/day	gwp	conversion	days/yr	MTCO2e/yr
CH4	0.01354031		500	25	0.000001	365 0.061777665
CO2	598.8549088		500	1	0.000001	365 109.2910208

299427.4544 109291020.8 109.2910208

calendar_year	season_month	sub_area	vehicle_class	temperature	relative_humidity	process	speed_time	pollutant	emission_rate		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		25 CH4	0.00229825		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		30 CH4	0.001793227		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		35 CH4	0.001475362		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		40 CH4	0.001279845	0.00150546	0.69
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		45 CH4	0.00117058		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		50 CH4	0.001128855		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		65 CH4	0.001392104		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		25 CH4	0.004399858		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		30 CH4	0.003448497		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		35 CH4	0.002845029		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		40 CH4	0.002470183	0.002888571	0.05
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		45 CH4	0.002257006		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		50 CH4	0.002170357		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		65 CH4	0.002629064		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		25 CH4	0.003565449		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		30 CH4	0.002783861		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		35 CH4	0.002291377		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		40 CH4	0.001988055	0.002336578	0.26
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		45 CH4	0.001818162		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		50 CH4	0.001752757		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		65 CH4	0.002156385		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		25 CO2	205.6171119		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		30 CO2	176.9964488		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		35 CO2	158.144954		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		40 CO2	146.652094	163.6002977	0.69
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		45 CO2	141.138392		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		50 CO2	140.9800922		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		65 CO2	175.6729907		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		25 CO2	269.6765628		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		30 CO2	232.1208985		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		35 CO2	207.3674796		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		40 CO2	192.2749239	214.504209	0.05
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		45 CO2	185.0370569		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		50 CO2	184.820693		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		65 CO2	230.2318485		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		25 CO2	256.6466236		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		30 CO2	220.9074516		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		35 CO2	197.3536639		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		40 CO2	182.992227	204.1473534	0.26
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		45 CO2	176.1044283		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		50 CO2	175.8994678		
2035	Annual	Los Angeles (SC)	LDT2	65		71 RUNEX		65 CO2	219.1276113		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		25 NOx	0.020970518		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		30 NOx	0.019407732		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		35 NOx	0.018258982		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		40 NOx	0.017460802	0.018238194	0.69
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		45 NOx	0.016971373		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		50 NOx	0.016765997		
2035	Annual	Los Angeles (SC)	LDA	65		71 RUNEX		65 NOx	0.017831955		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		25 NOx	0.036490891		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		30 NOx	0.033744787		
2035	Annual	Los Angeles (SC)	LDT1	65		71 RUNEX		35 NOx	0.031753821		



# **Energy Resources Calculations**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Avg Daily Factor	# Days	Fuel per hp-hr (gal/hp-hr)	Diesel Fuel Usage (gal)
Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	20	0.05	283.824
Demolition	Excavators	3	8	162	0.38	0.6	20	0.05	886.464
Demolition	Rubber Tired Dozers	2	8	255	0.4	0.6	20	0.05	979.2
Site Preparation	Rubber Tired Dozers	3	8	255	0.4	0.6	20	0.05	1468.8
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37	0.6	20	0.05	689.088
Grading	Excavators	2	8	162	0.38	0.6	50	0.05	1477.44
Grading	Graders	2	8	174	0.41	0.6	50	0.05	1712.16
Grading	Rubber Tired Dozers	2	8	255	0.4	0.6	50	0.05	2448
Grading	Tractors/Loaders/Backhoes	3	8	97	0.37	0.6	50	0.05	1292.04
Building Construction	Cranes	1	7	226	0.29	0.6	695	0.05	9565.563
Building Construction	Forklifts	3	8	89	0.2	0.6	695	0.05	8907.12
Building Construction	Generator Sets	1	8	84	0.74	0.6	695	0.05	10368.288
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	0.6	695	0.05	15714.4365
Building Construction	Welders	1	8	46	0.45	0.6	695	0.05	3452.76
Paving	Pavers	2	8	125	0.42	0.6	200	0.05	5040
Paving	Paving Equipment	2	8	130	0.36	0.6	200	0.05	4492.8
Paving	Rollers	2	8	80	0.38	0.6	200	0.05	2918.4
Architectural Coating	Air Compressors	1	6	78	0.48	0.6	200	0.05	1347.84

Total Gal 73044.2235

**Construction Equipment**

Gal Diesel 73,044  
 BTU/Gal Diesel (AFDC, 2014) 138,490 BTU/Gal Gas 124340

**Total BTU EQUIPMENT 10,115,894,513**

**Worker Vehicles**

Phase Name	Days	LDA/LDT (50/50) # Worker Trips/Day	W Trip Length	HDT # Vendor Trips/Day	V Trip Length	HDT # Haul Trips/Day	H Trip Length	LDA/LDT Worker Miles	HDT HD Miles
Demolition	20	16	14.7			8.7	20	4704	3480
Site Preparation	20	18	14.7			33.7	20	5292	13480
Grading	50	24	14.7			38.76	20	17640	38760
Building Construction	695	134	14.7	60	6.9			1369011	287730
Paving	200	16	14.7					47040	
Architectural Coating	200	28	14.7					82320	

	LDA/LDT	HDT
<b>Total Miles</b>	<b>1526007</b>	<b>343450</b>
BTU/VMT	5715	21540

	BTU/Vehicle Mile	% Worker Mix	Average
Car	4873	50%	5715
Truck	6,557	50%	
Heavy Duty Truck	21,540		

	Workers	HDT	EQUIP
<b>Total BTU</b>	<b>8,721,130,005</b>	<b>7,397,913,000</b>	<b>10,115,894,513</b>
Total Therms	87211.30005	73979.13	101158.9451

	Total BTU	Fuel Efficiency	MPG
Total BTU EQUIPMENT	10115894513		
Total BTU Cars	8721130005		
Total BTU Trucks	7397913000		
<b>Total BTU Construction</b>	<b>26,234,937,518</b>		
		<b>Worker Haul/Vendor</b>	<b>24.43233413</b> <b>6.03376078</b>

	Gasoline	Diesel
<b>Total Gal</b>	<b>62459</b>	<b>56921</b>
<b>Source</b>	<b>Fuel</b>	<b>Volume (Gal)</b>
Equipment	Diesel	73044
Trucks	Diesel	56921
Workers	Gasoline	62459

Fuel Efficiency	calendar_year	season_month	sub_area	vehicle_class	pollutant	emission (gal)	vmt	MPG
	2020	Annual	Los Angeles (SC)	LDA	Fuel	4644.264608	128049939.3	27.57162869
	2020	Annual	Los Angeles (SC)	LDT1	Fuel	474.8213667	10694672.01	22.52356941
	2020	Annual	Los Angeles (SC)	LDT2	Fuel	2370.082717	47549807.61	20.06250975
	2020	Annual	Los Angeles (SC)	T7 Single Construction	Fuel	39.22687802	236685.5981	6.03376078

**Water Electricity**

Phase Name	Offroad Equipment Type	Amount	# Days	Acre/day	Acres
Demolition	Rubber Tired Dozers	2	20	20	0.5
Site Preparation	Rubber Tired Dozers	3	20	20	0.5
Grading	Graders	2	50	50	0.5
Grading	Rubber Tired Dozers	2	50	50	0.5

Total Acres	Water App (gal/acre)	Total Water (gal)	Elec Demand (kWhr/gal)	Total Electricity
150	3020	453000	0.009727	4406.331 kwhr

**Stationary (PP)**

Sewer (Wastewater)	12,000,000 gallons/year	22932
Electrical	10,000,000 khr/year	
Natural Gas	120,000 Therm/year	12,000,000,000 BTU/year
Water	58,000,000 gallons/year	564166 kwhr
Waste	325 tons/year	

**Stationary (Existing)**

Sewer (Wastewater)	213,525 gallons/year	408
Electrical	170,000 khr/year	
Natural Gas	1,279 Therm/year	127,881,400 BTU/year
Water	3,354,000 gallons/year	32624 kwhr
Waste	11 tons/year	

**Regional Highway VMT**

Mobile	Existing VMT (Annual)	Future without Project VMT (Annual)	Proposed Project VMT (Annual)
Total	1.44204E+11	2.04255E+11	2.04256E+11
% Diesel	0.6	1	1
% Gas	99.4	99	99
Diesel VMT	865226292.8	2042546117	2042555615
Gas VMT	1.43339E+11	2.02212E+11	2.02213E+11
Diesel MPG	32.57685673	50.05204866	50.05204866
Gas MPG	23.06290464	38.02075703	38.02075703
<b>Diesel Gal</b>	<b>26,559,539</b>	<b>40,808,442</b>	<b>40,808,632</b>
<b>Gas Gal</b>	<b>6,215,138,904</b>	<b>5,318,465,002</b>	<b>5,318,489,732</b>
<b>Tow Diesel Ga</b>	<b>17,160</b>	<b>10,093</b>	
<b>Total Diesel</b>	<b>26,576,698</b>	<b>40,818,535</b>	

	BTU/VMT	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Car	4873	99501023673		1.40936E+11	1.40936E+11
Truck	6557	44703358462		63319224056	63318929639
		<b>Existing BTU</b>	<b>PP BTU</b>	<b>FWP BTU</b>	
		<b>7.77988E+14</b>		<b>1.10197E+15</b>	<b>1.10196E+15</b>
		Existing Therms	PP Therms	FWP Therms	
		7779884098		11019669244	11019618005

**Tow Trucks**

	Mi/year	2016 MPG	2016 Gal	2035 MPG	2035 Gal
	182500	10.63549225		<b>17160</b>	18.08190931
					<b>10093</b>
		<b>Tow Truck BTU</b>	<b>Tow Truck Therms</b>		
MpG	16.45	<b>1536439210</b>		<b>15364</b>	
	11094.22492				

**Buses**

	BTU/VMT	Existing VMT (Annual)	Proposed Project VMT (Annual)	Future without Project VMT (Annual)
Transit Bus	37,442	5755719.0	5564252.0	5459714.7
		<b>BTU Existing</b>	<b>BTU PP</b>	<b>BTU FWP</b>
		<b>215,505,632,019</b>	<b>208,336,723,010</b>	<b>204,422,639,482</b>
		Existing Therms	PP Therms	FWP Therms
		2155056	2083367	2044226

**Kiss/Ride**

	BTU/VMT	Proposed Project VMT (Annual)
	4873	564290
	6557	1897351767
		1147015354
		<b>BTU PP</b>
	<b>Kiss/Ride BTU</b>	<b>3044367122</b>



calendar_year	sub_area	vehicle_class	vmt	pollutant	emission (1000 gal)	MPG
2035	Imperial (SS)	LDA	4223947.172	Fuel	88.37142894	47.79766
2035	Imperial (SS)	LDT1	223067.4544	Fuel	5.991867223	37.22837
2035	Imperial (SS)	LDT2	1257702.139	Fuel	32.50723338	38.68992
2035	Los Angeles (MD)	LDA	4369669.096	Fuel	99.40237826	43.9594
2035	Los Angeles (MD)	LDT1	210604.6784	Fuel	6.30662733	33.39418
2035	Los Angeles (MD)	LDT2	991191.7611	Fuel	27.67192424	35.8194
2035	Los Angeles (SC)	LDA	137558118.5	Fuel	3178.102058	43.2831
2035	Los Angeles (SC)	LDT1	11289456.24	Fuel	342.3910703	32.9724
2035	Los Angeles (SC)	LDT2	54450017.46	Fuel	1570.123422	34.67881
2035	Orange (SC)	LDA	50069279.14	Fuel	1066.497585	46.94739
2035	Orange (SC)	LDT1	3710315.638	Fuel	102.5452088	36.18224
2035	Orange (SC)	LDT2	18343172.14	Fuel	482.2550196	38.03625
2035	Riverside (MD/MDAQMD)	LDA	1080863.945	Fuel	22.90565667	47.18764
2035	Riverside (MD/MDAQMD)	LDT1	66979.51653	Fuel	1.843929188	36.32434
2035	Riverside (MD/MDAQMD)	LDT2	368933.7016	Fuel	9.780926195	37.71971
2035	Riverside (MD/SCAQMD)	LDA	999456.1944	Fuel	21.56215771	46.35233
2035	Riverside (MD/SCAQMD)	LDT1	63816.20512	Fuel	1.786649354	35.71837
2035	Riverside (MD/SCAQMD)	LDT2	345554.3535	Fuel	9.344934412	36.97772
2035	Riverside (SC)	LDA	32890312.45	Fuel	669.7774486	49.10633
2035	Riverside (SC)	LDT1	1848799.139	Fuel	48.4918068	38.12601
2035	Riverside (SC)	LDT2	10523823.59	Fuel	264.8802973	39.73049
2035	Riverside (SS)	LDA	7168310.944	Fuel	158.0536521	45.35366
2035	Riverside (SS)	LDT1	541706.1732	Fuel	15.62091381	34.67826
2035	Riverside (SS)	LDT2	3073790.985	Fuel	85.28446774	36.04163
2035	San Bernardino (MD)	LDA	18857541.25	Fuel	384.6018023	49.03134
2035	San Bernardino (MD)	LDT1	1064909.697	Fuel	28.1447623	37.83687
2035	San Bernardino (MD)	LDT2	5903989.677	Fuel	150.2307721	39.29947
2035	San Bernardino (SC)	LDA	27039540.53	Fuel	580.9457669	46.544
2035	San Bernardino (SC)	LDT1	1593043.441	Fuel	44.7637758	35.58778
2035	San Bernardino (SC)	LDT2	8986311.877	Fuel	242.3291415	37.08308
2035	Ventura (SCC)	LDA	13555905.86	Fuel	285.8068431	47.43031
2035	Ventura (SCC)	LDT1	841099.6829	Fuel	22.99395473	36.57917
2035	Ventura (SCC)	LDT2	4134088.553	Fuel	106.7175937	38.73858

calendar_y	season	mcs	sub_area	vehicle_cla	fuel	pollutant	emission (1000 gal)	vmt	MPG	
2016	Annual		Imperial (SS)	LDA	Dsl	Fuel	0.568370054	20867.91801	36.71537	32.57686
2016	Annual		Imperial (SS)	LDT1	Dsl	Fuel	0.012092217	330.560638	27.33664	
2016	Annual		Imperial (SS)	LDT2	Dsl	Fuel	0.041335262	1198.720844	28.99996	
2016	Annual		Los Angeles (MD)	LDA	Dsl	Fuel	0.795194579	26191.91928	32.93775	
2016	Annual		Los Angeles (MD)	LDT1	Dsl	Fuel	0.011849238	290.6244457	24.52685	
2016	Annual		Los Angeles (MD)	LDT2	Dsl	Fuel	0.034238816	928.3204387	27.1131	
2016	Annual		Los Angeles (SC)	LDA	Dsl	Fuel	28.35068342	900435.7867	31.76064	
2016	Annual		Los Angeles (SC)	LDT1	Dsl	Fuel	0.620388872	14943.70415	24.08764	
2016	Annual		Los Angeles (SC)	LDT2	Dsl	Fuel	2.435156329	61373.89172	25.20327	
2016	Annual		Orange (SC)	LDA	Dsl	Fuel	10.10414647	341452.4241	33.7933	
2016	Annual		Orange (SC)	LDT1	Dsl	Fuel	0.094074352	2489.272285	26.46069	
2016	Annual		Orange (SC)	LDT2	Dsl	Fuel	0.91281652	24493.53689	26.83292	
2016	Annual		Riverside (MD/MDAQMD)	LDA	Dsl	Fuel	0.161679856	5528.531678	34.19431	
2016	Annual		Riverside (MD/MDAQMD)	LDT1	Dsl	Fuel	0.004956413	127.9724677	25.81957	
2016	Annual		Riverside (MD/MDAQMD)	LDT2	Dsl	Fuel	0.014768044	402.6715345	27.26641	
2016	Annual		Riverside (MD/SCAQMD)	LDA	Dsl	Fuel	0.170506133	5468.680631	32.07322	
2016	Annual		Riverside (MD/SCAQMD)	LDT1	Dsl	Fuel	0.003376726	83.61593331	24.76243	
2016	Annual		Riverside (MD/SCAQMD)	LDT2	Dsl	Fuel	0.012863253	330.4038865	25.68587	
2016	Annual		Riverside (SC)	LDA	Dsl	Fuel	4.740109915	167791.8147	35.3983	
2016	Annual		Riverside (SC)	LDT1	Dsl	Fuel	0.046302169	1263.018966	27.27775	
2016	Annual		Riverside (SC)	LDT2	Dsl	Fuel	0.327433337	9335.436633	28.51095	
2016	Annual		Riverside (SS)	LDA	Dsl	Fuel	1.02423878	36335.12448	35.47525	
2016	Annual		Riverside (SS)	LDT1	Dsl	Fuel	0.015520492	421.1526237	27.13526	
2016	Annual		Riverside (SS)	LDT2	Dsl	Fuel	0.073282316	2096.51081	28.60869	
2016	Annual		San Bernardino (MD)	LDA	Dsl	Fuel	3.040189521	104912.1137	34.50841	
2016	Annual		San Bernardino (MD)	LDT1	Dsl	Fuel	0.050230572	1316.145787	26.20209	
2016	Annual		San Bernardino (MD)	LDT2	Dsl	Fuel	0.206398335	5738.497425	27.80302	
2016	Annual		San Bernardino (SC)	LDA	Dsl	Fuel	3.77455254	130952.8533	34.69361	
2016	Annual		San Bernardino (SC)	LDT1	Dsl	Fuel	0.070892028	1887.169279	26.62033	
2016	Annual		San Bernardino (SC)	LDT2	Dsl	Fuel	0.288484383	7957.657775	27.58436	
2016	Annual		Ventura (SCC)	LDA	Dsl	Fuel	2.768109969	92930.45601	33.57181	
2016	Annual		Ventura (SCC)	LDT1	Dsl	Fuel	0.037972278	987.8227905	26.01431	
2016	Annual		Ventura (SCC)	LDT2	Dsl	Fuel	0.205682394	5586.771191	27.16213	
2016	Annual		Imperial (SS)	LDA	Gas	Fuel	103.1957351	2720355.928	26.36113	23.0629
2016	Annual		Imperial (SS)	LDT1	Gas	Fuel	10.181663	225016.0253	22.10013	
2016	Annual		Imperial (SS)	LDT2	Gas	Fuel	48.81521805	957767.2304	19.62026	

2016 Annual	Los Angeles (MD)	LDA	Gas	Fuel	133.424239	3301864.436	24.74711
2016 Annual	Los Angeles (MD)	LDT1	Gas	Fuel	12.55083976	262495.9569	20.91461
2016 Annual	Los Angeles (MD)	LDT2	Gas	Fuel	50.78627054	932610.2448	18.36343
2016 Annual	Los Angeles (SC)	LDA	Gas	Fuel	5042.251609	120114912.4	23.82168
2016 Annual	Los Angeles (SC)	LDT1	Gas	Fuel	518.0401598	10559434.2	20.38343
2016 Annual	Los Angeles (SC)	LDT2	Gas	Fuel	2473.775988	44165838.08	17.85361
2016 Annual	Orange (SC)	LDA	Gas	Fuel	1596.566613	40879323.6	25.60452
2016 Annual	Orange (SC)	LDT1	Gas	Fuel	160.738395	3550041.757	22.08584
2016 Annual	Orange (SC)	LDT2	Gas	Fuel	860.8624784	16546965.56	19.22138
2016 Annual	Riverside (MD/MDAQMD)	LDA	Gas	Fuel	25.82033137	652582.6711	25.27399
2016 Annual	Riverside (MD/MDAQMD)	LDT1	Gas	Fuel	2.838967901	59904.95069	21.10096
2016 Annual	Riverside (MD/MDAQMD)	LDT2	Gas	Fuel	12.60903182	237577.7901	18.84187
2016 Annual	Riverside (MD/SCAQMD)	LDA	Gas	Fuel	25.96041912	626974.7406	24.15118
2016 Annual	Riverside (MD/SCAQMD)	LDT1	Gas	Fuel	2.7008662	55445.85855	20.52892
2016 Annual	Riverside (MD/SCAQMD)	LDT2	Gas	Fuel	12.93862213	233321.3567	18.03294
2016 Annual	Riverside (SC)	LDA	Gas	Fuel	752.7634597	20191898.07	26.8237
2016 Annual	Riverside (SC)	LDT1	Gas	Fuel	74.2154417	1697069.456	22.8668
2016 Annual	Riverside (SC)	LDT2	Gas	Fuel	345.9069515	6980882.02	20.18139
2016 Annual	Riverside (SS)	LDA	Gas	Fuel	184.962641	4716947.274	25.50216
2016 Annual	Riverside (SS)	LDT1	Gas	Fuel	20.63107911	448895.5432	21.75822
2016 Annual	Riverside (SS)	LDT2	Gas	Fuel	99.25835214	1901672.1	19.15881
2016 Annual	San Bernardino (MD)	LDA	Gas	Fuel	485.9422578	12803708.8	26.34821
2016 Annual	San Bernardino (MD)	LDT1	Gas	Fuel	48.17795697	1071716.252	22.24495
2016 Annual	San Bernardino (MD)	LDT2	Gas	Fuel	227.8579104	4474351.602	19.63659
2016 Annual	San Bernardino (SC)	LDA	Gas	Fuel	740.2269217	18981651.42	25.64302
2016 Annual	San Bernardino (SC)	LDT1	Gas	Fuel	72.28873447	1573428.953	21.76589
2016 Annual	San Bernardino (SC)	LDT2	Gas	Fuel	335.1518721	6426443.401	19.17472
2016 Annual	Ventura (SCC)	LDA	Gas	Fuel	379.196254	9932213.852	26.19281
2016 Annual	Ventura (SCC)	LDT1	Gas	Fuel	39.64291156	883527.5119	22.28715
2016 Annual	Ventura (SCC)	LDT2	Gas	Fuel	185.6836056	3640004.836	19.60326

calendar_y	season	mcsub_area	vehicle_class	fuel	pollutant	emission (1000 gal)	vmt	MPG	
2016	Annual	Imperial (S)	LHD1	Dsl	Fuel	4.225221113	83006.764	19.64554	19.07943
2016	Annual	Imperial (S)	LHD2	Dsl	Fuel	1.335540212	24249.48	18.15706	
2016	Annual	Los Angeles	LHD1	Dsl	Fuel	3.636191865	72017.83	19.80584	
2016	Annual	Los Angeles	LHD2	Dsl	Fuel	1.437085892	25720.837	17.89791	
2016	Annual	Los Angeles	LHD1	Dsl	Fuel	78.96177969	1540652.2	19.51137	
2016	Annual	Los Angeles	LHD2	Dsl	Fuel	40.35345755	713322.38	17.67686	
2016	Annual	Orange (SC)	LHD1	Dsl	Fuel	32.41737985	639347.05	19.72235	
2016	Annual	Orange (SC)	LHD2	Dsl	Fuel	14.39413768	257657.02	17.90014	
2016	Annual	Riverside (I)	LHD1	Dsl	Fuel	1.244795289	24143.349	19.39544	
2016	Annual	Riverside (I)	LHD2	Dsl	Fuel	0.397956739	7210.9955	18.12005	
2016	Annual	Riverside (I)	LHD1	Dsl	Fuel	0.793504315	15458.637	19.48148	
2016	Annual	Riverside (I)	LHD2	Dsl	Fuel	0.289273956	5268.286	18.2121	
2016	Annual	Riverside (S)	LHD1	Dsl	Fuel	23.52656966	462635.45	19.66438	
2016	Annual	Riverside (S)	LHD2	Dsl	Fuel	9.628236607	173861.48	18.05746	
2016	Annual	Riverside (S)	LHD1	Dsl	Fuel	4.553359438	89624.469	19.68315	
2016	Annual	Riverside (S)	LHD2	Dsl	Fuel	2.044046707	37190.283	18.19444	
2016	Annual	San Bernar	LHD1	Dsl	Fuel	17.89791389	349179.27	19.5095	
2016	Annual	San Bernar	LHD2	Dsl	Fuel	6.864462093	124602.15	18.15177	
2016	Annual	San Bernar	LHD1	Dsl	Fuel	18.80634264	367530.19	19.54288	
2016	Annual	San Bernar	LHD2	Dsl	Fuel	7.500251506	133303.7	17.77323	
2016	Annual	Ventura (S)	LHD1	Dsl	Fuel	12.19368648	239445.84	19.63687	
2016	Annual	Ventura (S)	LHD2	Dsl	Fuel	4.685386504	83832.957	17.89243	
2016	Annual	Imperial (S)	LHD1	Gas	Fuel	6.275402114	66697.649	10.62843	10.63549
2016	Annual	Imperial (S)	LHD2	Gas	Fuel	1.276039725	12796.357	10.02818	
2016	Annual	Los Angeles	LHD1	Gas	Fuel	6.393684903	69857.755	10.92606	
2016	Annual	Los Angeles	LHD2	Gas	Fuel	0.960138366	9664.0594	10.06528	
2016	Annual	Los Angeles	LHD1	Gas	Fuel	249.4935436	2682738.4	10.75274	
2016	Annual	Los Angeles	LHD2	Gas	Fuel	58.38283232	575225.46	9.852647	
2016	Annual	Orange (SC)	LHD1	Gas	Fuel	85.14354239	931129.25	10.93599	
2016	Annual	Orange (SC)	LHD2	Gas	Fuel	19.12212973	192005.65	10.04102	
2016	Annual	Riverside (I)	LHD1	Gas	Fuel	1.947659935	20196.315	10.36953	
2016	Annual	Riverside (I)	LHD2	Gas	Fuel	0.274733625	2733.3185	9.948977	
2016	Annual	Riverside (I)	LHD1	Gas	Fuel	1.539509452	16027.983	10.4111	

2016 Annual	Riverside (I LHD2	Gas	Fuel	0.279811573	2797.2574	9.996932
2016 Annual	Riverside (S LHD1	Gas	Fuel	43.3746715	467381.23	10.77544
2016 Annual	Riverside (S LHD2	Gas	Fuel	7.184341357	72433.836	10.08218
2016 Annual	Riverside (S LHD1	Gas	Fuel	10.89272498	116222.09	10.6697
2016 Annual	Riverside (S LHD2	Gas	Fuel	2.90595949	29162.785	10.03551
2016 Annual	San Bernar LHD1	Gas	Fuel	32.28749899	338153.29	10.4732
2016 Annual	San Bernar LHD2	Gas	Fuel	5.073632683	50716.412	9.996075
2016 Annual	San Bernar LHD1	Gas	Fuel	41.64718853	450803.46	10.82434
2016 Annual	San Bernar LHD2	Gas	Fuel	8.786460299	87460.111	9.953964
2016 Annual	Ventura (S LHD1	Gas	Fuel	25.76271966	279523.72	10.84993
2016 Annual	Ventura (S LHD2	Gas	Fuel	5.527478099	55419.326	10.02615

calendar_year	season_month	sub_area	vehicle_class	fuel	pollutant	emission (1000 gal)	vmt	mpg	
2035	Annual	Imperial (SS)	LDA	Dsl	Fuel	0.87662464	48882.93321	55.76267	50.05205
2035	Annual	Imperial (SS)	LDT1	Dsl	Fuel	0.002584224	126.8746518	49.09585	
2035	Annual	Imperial (SS)	LDT2	Dsl	Fuel	0.061134406	2738.161758	44.78921	
2035	Annual	Los Angeles (MD)	LDA	Dsl	Fuel	1.011692362	50332.97376	49.75126	
2035	Annual	Los Angeles (MD)	LDT1	Dsl	Fuel	0.002492614	111.6964027	44.81095	
2035	Annual	Los Angeles (MD)	LDT2	Dsl	Fuel	0.053105186	2147.776891	40.44383	
2035	Annual	Los Angeles (SC)	LDA	Dsl	Fuel	32.74157033	1584259.729	48.3868	
2035	Annual	Los Angeles (SC)	LDT1	Dsl	Fuel	0.158968636	6530.97792	41.08344	
2035	Annual	Los Angeles (SC)	LDT2	Dsl	Fuel	3.077010085	118776.3078	38.60121	
2035	Annual	Orange (SC)	LDA	Dsl	Fuel	11.16718145	579430.6887	51.88692	
2035	Annual	Orange (SC)	LDT1	Dsl	Fuel	0.043165754	2025.826251	46.93133	
2035	Annual	Orange (SC)	LDT2	Dsl	Fuel	0.966303038	40145.50419	41.54546	
2035	Annual	Riverside (MD/MDAQMD)	LDA	Dsl	Fuel	0.233429884	12499.95287	53.54907	
2035	Annual	Riverside (MD/MDAQMD)	LDT1	Dsl	Fuel	0.000821054	38.38569814	46.75171	
2035	Annual	Riverside (MD/MDAQMD)	LDT2	Dsl	Fuel	0.018896789	808.4953383	42.7848	
2035	Annual	Riverside (MD/SCAQMD)	LDA	Dsl	Fuel	0.223271434	11565.75855	51.80134	
2035	Annual	Riverside (MD/SCAQMD)	LDT1	Dsl	Fuel	0.000785428	36.0050642	45.8413	
2035	Annual	Riverside (MD/SCAQMD)	LDT2	Dsl	Fuel	0.018111807	753.0682452	41.57886	
2035	Annual	Riverside (SC)	LDA	Dsl	Fuel	6.993246668	380450.2878	54.40253	
2035	Annual	Riverside (SC)	LDT1	Dsl	Fuel	0.020065309	1001.815949	49.92776	
2035	Annual	Riverside (SC)	LDT2	Dsl	Fuel	0.524070836	22959.51426	43.80994	
2035	Annual	Riverside (SS)	LDA	Dsl	Fuel	1.568829268	82875.34378	52.82624	
2035	Annual	Riverside (SS)	LDT1	Dsl	Fuel	0.006353092	298.6938038	47.0155	
2035	Annual	Riverside (SS)	LDT2	Dsl	Fuel	0.158833753	6678.464857	42.04689	
2035	Annual	San Bernardino (MD)	LDA	Dsl	Fuel	4.044177461	218038.7143	53.91423	
2035	Annual	San Bernardino (MD)	LDT1	Dsl	Fuel	0.012386386	595.5273388	48.07918	
2035	Annual	San Bernardino (MD)	LDT2	Dsl	Fuel	0.296472137	12856.41274	43.36466	
2035	Annual	San Bernardino (SC)	LDA	Dsl	Fuel	5.998240011	311967.7023	52.00987	
2035	Annual	San Bernardino (SC)	LDT1	Dsl	Fuel	0.020053017	909.4681975	45.35318	
2035	Annual	San Bernardino (SC)	LDT2	Dsl	Fuel	0.470532862	19541.33855	41.53023	
2035	Annual	Ventura (SCC)	LDA	Dsl	Fuel	3.035105255	156889.8814	51.69174	
2035	Annual	Ventura (SCC)	LDT1	Dsl	Fuel	0.010162544	468.1827655	46.06945	
2035	Annual	Ventura (SCC)	LDT2	Dsl	Fuel	0.217178387	9053.420602	41.68656	
2035	Annual	Imperial (SS)	LDA	Gas	Fuel	87.4948043	3574241.246	40.8509	38.02076
2035	Annual	Imperial (SS)	LDT1	Gas	Fuel	5.989282999	222832.2175	37.20516	
2035	Annual	Imperial (SS)	LDT2	Gas	Fuel	32.44609897	1254963.978	38.67842	
2035	Annual	Los Angeles (MD)	LDA	Gas	Fuel	98.3906859	3723098.617	37.83995	
2035	Annual	Los Angeles (MD)	LDT1	Gas	Fuel	6.304134716	210401.1018	33.3751	

2035 Annual	Los Angeles (MD)	LDT2	Gas	Fuel	27.61881906	989043.9842	35.81051
2035 Annual	Los Angeles (SC)	LDA	Gas	Fuel	3145.360488	116688186.9	37.09851
2035 Annual	Los Angeles (SC)	LDT1	Gas	Fuel	342.2321017	11277275.63	32.95213
2035 Annual	Los Angeles (SC)	LDT2	Gas	Fuel	1567.046412	54331241.15	34.67111
2035 Annual	Orange (SC)	LDA	Gas	Fuel	1055.330404	42308312.62	40.09011
2035 Annual	Orange (SC)	LDT1	Gas	Fuel	102.5020431	3706603.916	36.16127
2035 Annual	Orange (SC)	LDT2	Gas	Fuel	481.2887166	18303026.63	38.0292
2035 Annual	Riverside (MD/MDAQMD)	LDA	Gas	Fuel	22.67222678	914542.7546	40.33758
2035 Annual	Riverside (MD/MDAQMD)	LDT1	Gas	Fuel	1.843108134	66908.06057	36.30176
2035 Annual	Riverside (MD/MDAQMD)	LDT2	Gas	Fuel	9.762029406	368125.2063	37.70991
2035 Annual	Riverside (MD/SCAQMD)	LDA	Gas	Fuel	21.33888628	846409.5477	39.66512
2035 Annual	Riverside (MD/SCAQMD)	LDT1	Gas	Fuel	1.785863926	63750.31126	35.69718
2035 Annual	Riverside (MD/SCAQMD)	LDT2	Gas	Fuel	9.326822605	344801.2852	36.96878
2035 Annual	Riverside (SC)	LDA	Gas	Fuel	662.7842019	27854736.05	42.02686
2035 Annual	Riverside (SC)	LDT1	Gas	Fuel	48.47174149	1846976.203	38.10418
2035 Annual	Riverside (SC)	LDT2	Gas	Fuel	264.3562265	10500864.08	39.7224
2035 Annual	Riverside (SS)	LDA	Gas	Fuel	156.4848229	6051030.831	38.66848
2035 Annual	Riverside (SS)	LDT1	Gas	Fuel	15.61456072	541173.044	34.65823
2035 Annual	Riverside (SS)	LDT2	Gas	Fuel	85.12563399	3067112.52	36.03042
2035 Annual	San Bernardino (MD)	LDA	Gas	Fuel	380.5576249	15977988.91	41.98573
2035 Annual	San Bernardino (MD)	LDT1	Gas	Fuel	28.13237591	1063830.793	37.81518
2035 Annual	San Bernardino (MD)	LDT2	Gas	Fuel	149.9343	5891133.265	39.29143
2035 Annual	San Bernardino (SC)	LDA	Gas	Fuel	574.9475269	22895578.44	39.82203
2035 Annual	San Bernardino (SC)	LDT1	Gas	Fuel	44.74372278	1591405.777	35.56713
2035 Annual	San Bernardino (SC)	LDT2	Gas	Fuel	241.8586087	8966770.539	37.07443
2035 Annual	Ventura (SCC)	LDA	Gas	Fuel	282.7717378	11477391.04	40.58889
2035 Annual	Ventura (SCC)	LDT1	Gas	Fuel	22.98379219	840252.2775	36.55847
2035 Annual	Ventura (SCC)	LDT2	Gas	Fuel	106.5004153	4125035.132	38.73257

season_month	sub_area	vehicle_class	fuel	pollutant	emission (1000 gal)	vmt	MPG	
Annual	Imperial (SS)	LHD1	Gas	Fuel	2.243044758	25759.25	11.48406	18.18049
Annual	Imperial (SS)	LHD2	Gas	Fuel	0.830963053	9098.7144	10.9496	
Annual	Imperial (SS)	LHD1	Dsl	Fuel	2.196838647	48384.417	22.02457	
Annual	Imperial (SS)	LHD2	Dsl	Fuel	1.080670371	22382.475	20.71166	
Annual	Los Angeles (MD)	LHD1	Gas	Fuel	1.723615253	19883.755	11.53607	
Annual	Los Angeles (MD)	LHD2	Gas	Fuel	0.6886926	7450.4136	10.8182	
Annual	Los Angeles (MD)	LHD1	Dsl	Fuel	1.84605111	40478.432	21.92704	
Annual	Los Angeles (MD)	LHD2	Dsl	Fuel	0.922990289	18675.668	20.23387	
Annual	Los Angeles (SC)	LHD1	Gas	Fuel	100.4290052	1164072.8	11.591	
Annual	Los Angeles (SC)	LHD2	Gas	Fuel	45.51075263	486734.03	10.69492	
Annual	Los Angeles (SC)	LHD1	Dsl	Fuel	103.9070608	2291944	22.05763	
Annual	Los Angeles (SC)	LHD2	Dsl	Fuel	58.78234781	1180193	20.07734	
Annual	Orange (SC)	LHD1	Gas	Fuel	30.85348279	361566.59	11.71883	
Annual	Orange (SC)	LHD2	Gas	Fuel	13.71237981	148925.53	10.86066	
Annual	Orange (SC)	LHD1	Dsl	Fuel	32.24091472	717017.42	22.23936	
Annual	Orange (SC)	LHD2	Dsl	Fuel	17.77745231	361194.63	20.31757	
Annual	Riverside (MD/MDAQMD)	LHD1	Gas	Fuel	0.676486913	7556.694	11.1705	
Annual	Riverside (MD/MDAQMD)	LHD2	Gas	Fuel	0.233316756	2544.2002	10.90449	
Annual	Riverside (MD/MDAQMD)	LHD1	Dsl	Fuel	0.65480373	14169.255	21.63893	
Annual	Riverside (MD/MDAQMD)	LHD2	Dsl	Fuel	0.310387193	6414.4146	20.66585	
Annual	Riverside (MD/SCAQMD)	LHD1	Gas	Fuel	0.629745142	7110.8159	11.29158	
Annual	Riverside (MD/SCAQMD)	LHD2	Gas	Fuel	0.231820721	2542.7915	10.96878	
Annual	Riverside (MD/SCAQMD)	LHD1	Dsl	Fuel	0.592186886	13003.826	21.95899	18.08191
Annual	Riverside (MD/SCAQMD)	LHD2	Dsl	Fuel	0.299345436	6234.0191	20.8255	
Annual	Riverside (SC)	LHD1	Gas	Fuel	15.18259274	175402.72	11.55288	
Annual	Riverside (SC)	LHD2	Gas	Fuel	5.53305927	60750.776	10.9796	
Annual	Riverside (SC)	LHD1	Dsl	Fuel	14.1371314	313142.78	22.15038	
Annual	Riverside (SC)	LHD2	Dsl	Fuel	7.315924564	150864.54	20.62139	
Annual	Riverside (SS)	LHD1	Gas	Fuel	4.890607404	56515.852	11.556	
Annual	Riverside (SS)	LHD2	Gas	Fuel	1.911405618	20803.58	10.88392	
Annual	Riverside (SS)	LHD1	Dsl	Fuel	4.476290912	99534.526	22.23594	
Annual	Riverside (SS)	LHD2	Dsl	Fuel	2.442716777	50307.55	20.59492	
Annual	San Bernardino (MD)	LHD1	Gas	Fuel	10.28360225	115923.76	11.27268	
Annual	San Bernardino (MD)	LHD2	Gas	Fuel	3.650169737	39769.207	10.89517	
Annual	San Bernardino (MD)	LHD1	Dsl	Fuel	9.634983139	210824.37	21.88113	
Annual	San Bernardino (MD)	LHD2	Dsl	Fuel	4.779899833	98941.106	20.69941	
Annual	San Bernardino (SC)	LHD1	Gas	Fuel	14.21371923	162662.54	11.44405	



Annual	San Bernardino (SC)	LHD2	Gas	Fuel	5.252484656	56024.257	10.66624
Annual	San Bernardino (SC)	LHD1	Dsl	Fuel	12.89369858	280808.64	21.77875
Annual	San Bernardino (SC)	LHD2	Dsl	Fuel	6.78554941	135927.5	20.03191
Annual	Ventura (SCC)	LHD1	Gas	Fuel	7.716045522	89247.713	11.56651
Annual	Ventura (SCC)	LHD2	Gas	Fuel	3.243481094	35068.425	10.81197
Annual	Ventura (SCC)	LHD1	Dsl	Fuel	8.045953426	176773.14	21.97044
Annual	Ventura (SCC)	LHD2	Dsl	Fuel	4.183206761	84857.892	20.28537