



**APPENDIX IV.B**

**Air Quality**



**IV.B.1**

**CalEEMod Output Sheets**



Long Beach Riverpark - Los Angeles-South Coast County, Summer

**Long Beach Riverpark**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	9.07	Acre	9.07	395,089.20	0
Parking Lot	3.94	Acre	3.94	171,626.40	0
Apartments Low Rise	152.00	Dwelling Unit	3.79	152,000.00	435
Single Family Housing	74.00	Dwelling Unit	3.54	133,200.00	212

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9	<b>Operational Year</b>	2027		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<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 - Carbon factor adjusted per 2017 Edison Sustainability Report.

Land Use - Project site is 20.34 acres in size.

Construction Phase - Estimated construction schedule.

Grading - 43,468 cy soil import.

Vehicle Trips - Trip rates based on project traffic study.

Woodstoves - No woodstoves.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures per SCAQMD Rule 403.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	370.00	740.00
tblConstructionPhase	NumDays	35.00	66.00
tblConstructionPhase	NumDays	20.00	152.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	10.00	169.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	15.20	0.00
tblFireplaces	NumberNoFireplace	7.40	0.00
tblFireplaces	NumberWood	7.60	0.00
tblFireplaces	NumberWood	3.70	0.00
tblGrading	MaterialImported	0.00	43,468.00
tblLandUse	LotAcreage	9.50	3.79
tblLandUse	LotAcreage	24.03	3.54
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	7.16	7.23
tblVehicleTrips	ST_TR	9.91	9.34
tblVehicleTrips	SU_TR	6.07	6.21
tblVehicleTrips	SU_TR	8.62	6.21
tblVehicleTrips	WD_TR	6.59	6.74

tblVehicleTrips	WD_TR	9.52	8.97
tblWoodstoves	NumberCatalytic	7.60	0.00
tblWoodstoves	NumberCatalytic	3.70	0.00
tblWoodstoves	NumberNoncatalytic	7.60	0.00
tblWoodstoves	NumberNoncatalytic	3.70	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2022	3.2424	33.1314	20.3667	0.0400	18.2675	1.6142	19.8816	9.9840	1.4850	11.4691	0.0000	3,883.8301	3,883.8301	1.1976	0.0000	3,913.7702
2023	7.0562	71.5806	64.9948	0.2203	18.2675	2.1917	19.5350	9.9840	2.0323	11.1502	0.0000	22,424.3739	22,424.3739	3.2555	0.0000	22,505.7617
2024	4.1568	31.9879	45.6628	0.1185	5.0972	1.1238	6.2210	1.3688	1.0469	2.4157	0.0000	11,828.3208	11,828.3208	1.5757	0.0000	11,867.7135
2025	2.8697	21.3172	29.5633	0.0924	4.9296	0.5675	5.4970	1.3244	0.5333	1.8577	0.0000	9,302.1129	9,302.1129	0.8441	0.0000	9,323.2154
2026	32.6466	22.4672	32.6831	0.1011	5.7679	0.6237	6.3916	1.5467	0.5892	2.1359	0.0000	10,152.9346	10,152.9346	0.8659	0.0000	10,174.5813
<b>Maximum</b>	<b>32.6466</b>	<b>71.5806</b>	<b>64.9948</b>	<b>0.2203</b>	<b>18.2675</b>	<b>2.1917</b>	<b>19.8816</b>	<b>9.9840</b>	<b>2.0323</b>	<b>11.4691</b>	<b>0.0000</b>	<b>22,424.3739</b>	<b>22,424.3739</b>	<b>3.2555</b>	<b>0.0000</b>	<b>22,505.7617</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2424	33.1314	20.3667	0.0400	6.1902	1.6142	7.8043	3.3454	1.4850	4.8304	0.0000	3,883.8301	3,883.8301	1.1976	0.0000	3,913.7702
2023	7.0562	71.5806	64.9948	0.2203	9.4928	2.1917	11.6844	3.3454	2.0323	5.0066	0.0000	22,424.3739	22,424.3739	3.2555	0.0000	22,505.7617
2024	4.1568	31.9879	45.6628	0.1185	5.0972	1.1238	6.2210	1.3688	1.0469	2.4157	0.0000	11,828.3208	11,828.3208	1.5757	0.0000	11,867.7135
2025	2.8697	21.3172	29.5633	0.0924	4.9296	0.5675	5.4970	1.3244	0.5333	1.8577	0.0000	9,302.1129	9,302.1129	0.8441	0.0000	9,323.2154
2026	32.6466	22.4672	32.6831	0.1011	5.7679	0.6237	6.3916	1.5467	0.5892	2.1359	0.0000	10,152.9346	10,152.9346	0.8659	0.0000	10,174.5813
<b>Maximum</b>	<b>32.6466</b>	<b>71.5806</b>	<b>64.9948</b>	<b>0.2203</b>	<b>9.4928</b>	<b>2.1917</b>	<b>11.6844</b>	<b>3.3454</b>	<b>2.0323</b>	<b>5.0066</b>	<b>0.0000</b>	<b>22,424.3739</b>	<b>22,424.3739</b>	<b>3.2555</b>	<b>0.0000</b>	<b>22,505.7617</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>39.85</b>	<b>0.00</b>	<b>34.64</b>	<b>54.85</b>	<b>0.00</b>	<b>44.03</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>

## 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	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Energy	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
Mobile	2.4282	10.9917	32.4338	0.1392	13.0037	0.0984	13.1021	3.4789	0.0914	3.5703		14,220.9330	14,220.9330	0.6114		14,236.2181

Total	9.8737	15.5333	52.9041	0.1678	13.0037	0.5516	13.5553	3.4789	0.5446	4.0235	0.0000	19,778.355	19,778.355	0.7494	0.1013	19,827.270
												55	5			0

### 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	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Energy	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
Mobile	2.4282	10.9917	32.4338	0.1392	13.0037	0.0984	13.1021	3.4789	0.0914	3.5703		14,220.9330	14,220.9330	0.6114		14,236.2181
<b>Total</b>	<b>9.8737</b>	<b>15.5333</b>	<b>52.9041</b>	<b>0.1678</b>	<b>13.0037</b>	<b>0.5516</b>	<b>13.5553</b>	<b>3.4789</b>	<b>0.5446</b>	<b>4.0235</b>	<b>0.0000</b>	<b>19,778.355</b>	<b>19,778.355</b>	<b>0.7494</b>	<b>0.1013</b>	<b>19,827.270</b>
												55	5			0

	ROG	NOx	CO	SO2	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	Site Clearing	Site Preparation	10/1/2022	10/8/2022	5	5	1
2	Bioremediation	Site Preparation	10/9/2022	6/1/2023	5	169	2
3	Grading	Grading	6/2/2023	9/1/2023	5	66	3
4	Building Construction	Building Construction	8/1/2023	6/1/2026	5	740	5
5	Utility Installation/Streets	Paving	12/1/2023	7/1/2024	5	152	4
6	Architectural Coating	Architectural Coating	3/1/2026	6/1/2026	5	66	6

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 165

Acres of Paving: 13.01

Residential Indoor: 577,530; Residential Outdoor: 192,510; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Clearing	Rubber Tired Dozers	3	8.00	247	0.40
Site Clearing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Bioremediation	Rubber Tired Dozers	3	8.00	247	0.40
Bioremediation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Installation/Streets	Pavers	2	8.00	130	0.42
Utility Installation/Streets	Paving Equipment	2	8.00	132	0.36
Utility Installation/Streets	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	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
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
------------	-------------------------	--------------------	--------------------	---------------------	--------------------	--------------------	---------------------	----------------------	----------------------	-----------------------



Site Clearing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Bioremediation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,434.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Installation/Streets	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	374.00	117.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Clearing - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
<b>Total</b>	<b>0.0723</b>	<b>0.0479</b>	<b>0.6689</b>	<b>1.9800e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>197.7682</b>	<b>197.7682</b>	<b>5.4600e-003</b>		<b>197.9047</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>5.9890</b>	<b>1.6126</b>	<b>7.6015</b>	<b>3.2920</b>	<b>1.4836</b>	<b>4.7756</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	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	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
<b>Total</b>	<b>0.0723</b>	<b>0.0479</b>	<b>0.6689</b>	<b>1.9800e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>197.7682</b>	<b>197.7682</b>	<b>5.4600e-003</b>		<b>197.9047</b>

### 3.3 Bioremediation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
<b>Total</b>	<b>0.0723</b>	<b>0.0479</b>	<b>0.6689</b>	<b>1.9800e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>197.7682</b>	<b>197.7682</b>	<b>5.4600e-003</b>		<b>197.9047</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>5.9890</b>	<b>1.6126</b>	<b>7.6015</b>	<b>3.2920</b>	<b>1.4836</b>	<b>4.7756</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	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	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
<b>Total</b>	<b>0.0723</b>	<b>0.0479</b>	<b>0.6689</b>	<b>1.9800e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>197.7682</b>	<b>197.7682</b>	<b>5.4600e-003</b>		<b>197.9047</b>

**3.3 Bioremediation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.2660</b>	<b>19.3323</b>	<b>9.9307</b>	<b>1.1647</b>	<b>11.0954</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0679	0.0433	0.6160	1.9100e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		190.5268	190.5268	4.9200e-003		190.6498
<b>Total</b>	<b>0.0679</b>	<b>0.0433</b>	<b>0.6160</b>	<b>1.9100e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>190.5268</b>	<b>190.5268</b>	<b>4.9200e-003</b>		<b>190.6498</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000

Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>5.9890</b>	<b>1.2660</b>	<b>7.2550</b>	<b>3.2920</b>	<b>1.1647</b>	<b>4.4568</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</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	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	0.0679	0.0433	0.6160	1.9100e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		190.5268	190.5268	4.9200e-003		190.6498
<b>Total</b>	<b>0.0679</b>	<b>0.0433</b>	<b>0.6160</b>	<b>1.9100e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>190.5268</b>	<b>190.5268</b>	<b>4.9200e-003</b>		<b>190.6498</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7478	0.0000	8.7478	3.6078	0.0000	3.6078			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.7478</b>	<b>1.4245</b>	<b>10.1723</b>	<b>3.6078</b>	<b>1.3105</b>	<b>4.9183</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.4285	13.5348	4.6789	0.0606	1.4398	0.0245	1.4643	0.3947	0.0235	0.4181		6,599.5503	6,599.5503	0.4336			6,610.3899
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	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003			211.8331
<b>Total</b>	<b>0.5039</b>	<b>13.5829</b>	<b>5.3634</b>	<b>0.0627</b>	<b>1.6633</b>	<b>0.0262</b>	<b>1.6895</b>	<b>0.4540</b>	<b>0.0250</b>	<b>0.4790</b>		<b>6,811.2467</b>	<b>6,811.2467</b>	<b>0.4391</b>			<b>6,822.2230</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					2.8999	0.0000	2.8999	1.1960	0.0000	1.1960			0.0000			0.0000	
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442			6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>2.8999</b>	<b>1.4245</b>	<b>4.3244</b>	<b>1.1960</b>	<b>1.3105</b>	<b>2.5065</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>			<b>6,060.0836</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	lb/day										lb/day				
Hauling	0.4285	13.5348	4.6789	0.0606	1.4398	0.0245	1.4643	0.3947	0.0235	0.4181	6,599.5503	6,599.5503	0.4336		6,610.3899
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	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609	211.6964	211.6964	5.4700e-003		211.8331
<b>Total</b>	<b>0.5039</b>	<b>13.5829</b>	<b>5.3634</b>	<b>0.0627</b>	<b>1.6633</b>	<b>0.0262</b>	<b>1.6895</b>	<b>0.4540</b>	<b>0.0250</b>	<b>0.4790</b>	<b>6,811.2467</b>	<b>6,811.2467</b>	<b>0.4391</b>		<b>6,822.2230</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	2,555.2099	2,555.2099	0.6079			2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>			<b>2,570.4061</b>

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2476	8.1966	2.5375	0.0288	0.7491	9.4700e-003	0.7586	0.2157	9.0500e-003	0.2247	3,087.7169	3,087.7169	0.1621			3,091.7700



Worker	1.4102	0.9006	12.7988	0.0397	4.1804	0.0318	4.2122	1.1087	0.0293	1.1380		3,958.7227	3,958.7227	0.1023		3,961.2791
<b>Total</b>	<b>1.6578</b>	<b>9.0972</b>	<b>15.3363</b>	<b>0.0685</b>	<b>4.9295</b>	<b>0.0413</b>	<b>4.9708</b>	<b>1.3244</b>	<b>0.0383</b>	<b>1.3627</b>		<b>7,046.4396</b>	<b>7,046.4396</b>	<b>0.2644</b>		<b>7,053.0491</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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	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	0.2476	8.1966	2.5375	0.0288	0.7491	9.4700e-003	0.7586	0.2157	9.0500e-003	0.2247		3,087.7169	3,087.7169	0.1621		3,091.7700
Worker	1.4102	0.9006	12.7988	0.0397	4.1804	0.0318	4.2122	1.1087	0.0293	1.1380		3,958.7227	3,958.7227	0.1023		3,961.2791
<b>Total</b>	<b>1.6578</b>	<b>9.0972</b>	<b>15.3363</b>	<b>0.0685</b>	<b>4.9295</b>	<b>0.0413</b>	<b>4.9708</b>	<b>1.3244</b>	<b>0.0383</b>	<b>1.3627</b>		<b>7,046.4396</b>	<b>7,046.4396</b>	<b>0.2644</b>		<b>7,053.0491</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2417	8.1654	2.4602	0.0287	0.7491	9.3500e-003	0.7585	0.2157	8.9400e-003	0.2246		3,075.1862	3,075.1862	0.1598		3,079.1816
Worker	1.3340	0.8213	11.9314	0.0385	4.1804	0.0313	4.2118	1.1087	0.0289	1.1375		3,836.0367	3,836.0367	0.0938		3,838.3821
<b>Total</b>	<b>1.5757</b>	<b>8.9866</b>	<b>14.3917</b>	<b>0.0672</b>	<b>4.9295</b>	<b>0.0407</b>	<b>4.9702</b>	<b>1.3244</b>	<b>0.0378</b>	<b>1.3621</b>		<b>6,911.2229</b>	<b>6,911.2229</b>	<b>0.2536</b>		<b>6,917.5637</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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</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	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	0.2417	8.1654	2.4602	0.0287	0.7491	9.3500e-003	0.7585	0.2157	8.9400e-003	0.2246		3,075.1862	3,075.1862	0.1598		3,079.1816
Worker	1.3340	0.8213	11.9314	0.0385	4.1804	0.0313	4.2118	1.1087	0.0289	1.1375		3,836.0367	3,836.0367	0.0938		3,838.3821
<b>Total</b>	<b>1.5757</b>	<b>8.9866</b>	<b>14.3917</b>	<b>0.0672</b>	<b>4.9295</b>	<b>0.0407</b>	<b>4.9702</b>	<b>1.3244</b>	<b>0.0378</b>	<b>1.3621</b>		<b>6,911.2229</b>	<b>6,911.2229</b>	<b>0.2536</b>		<b>6,917.5637</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.2356	8.0961	2.3971	0.0285	0.7491	9.2100e-003	0.7583	0.2157	8.8000e-003	0.2245		3,058.2417	3,058.2417	0.1576			3,062.1811
Worker	1.2667	0.7514	11.0816	0.0370	4.1804	0.0307	4.2111	1.1087	0.0283	1.1369		3,687.3968	3,687.3968	0.0856			3,689.5363
<b>Total</b>	<b>1.5023</b>	<b>8.8475</b>	<b>13.4786</b>	<b>0.0655</b>	<b>4.9296</b>	<b>0.0399</b>	<b>4.9695</b>	<b>1.3244</b>	<b>0.0371</b>	<b>1.3614</b>		<b>6,745.6385</b>	<b>6,745.6385</b>	<b>0.2432</b>			<b>6,751.7173</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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010			2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>			<b>2,571.4981</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	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	0.2356	8.0961	2.3971	0.0285	0.7491	9.2100e-003	0.7583	0.2157	8.8000e-003	0.2245		3,058.2417	3,058.2417	0.1576		3,062.1811
Worker	1.2667	0.7514	11.0816	0.0370	4.1804	0.0307	4.2111	1.1087	0.0283	1.1369		3,687.3968	3,687.3968	0.0856		3,689.5363
<b>Total</b>	<b>1.5023</b>	<b>8.8475</b>	<b>13.4786</b>	<b>0.0655</b>	<b>4.9296</b>	<b>0.0399</b>	<b>4.9695</b>	<b>1.3244</b>	<b>0.0371</b>	<b>1.3614</b>		<b>6,745.6385</b>	<b>6,745.6385</b>	<b>0.2432</b>		<b>6,751.7173</b>

### 3.5 Building Construction - 2026

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000
Vendor	0.2303	8.0209	2.3487	0.0283	0.7491	9.0300e-003	0.7582	0.2157	8.6300e-003	0.2243		3,041.9706	3,041.9706	0.1553		3,045.8541
Worker	1.2088	0.6923	10.3626	0.0357	4.1804	0.0297	4.2101	1.1087	0.0273	1.1360		3,559.2818	3,559.2818	0.0785		3,561.2440
<b>Total</b>	<b>1.4391</b>	<b>8.7132</b>	<b>12.7113</b>	<b>0.0640</b>	<b>4.9296</b>	<b>0.0387</b>	<b>4.9683</b>	<b>1.3244</b>	<b>0.0359</b>	<b>1.3603</b>		<b>6,601.2525</b>	<b>6,601.2525</b>	<b>0.2338</b>		<b>6,607.0981</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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</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	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	0.2303	8.0209	2.3487	0.0283	0.7491	9.0300e-003	0.7582	0.2157	8.6300e-003	0.2243		3,041.9706	3,041.9706	0.1553		3,045.8541
Worker	1.2088	0.6923	10.3626	0.0357	4.1804	0.0297	4.2101	1.1087	0.0273	1.1360		3,559.2818	3,559.2818	0.0785		3,561.2440

Total	1.4391	8.7132	12.7113	0.0640	4.9296	0.0387	4.9683	1.3244	0.0359	1.3603		6,601.2525	6,601.2525	0.2338		6,607.0981
-------	--------	--------	---------	--------	--------	--------	--------	--------	--------	--------	--	------------	------------	--------	--	------------

### 3.6 Utility Installation/Streets - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1007</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
<b>Total</b>	<b>0.0566</b>	<b>0.0361</b>	<b>0.5133</b>	<b>1.5900e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>158.7723</b>	<b>158.7723</b>	<b>4.1000e-003</b>		<b>158.8748</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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1007</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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	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	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
<b>Total</b>	<b>0.0566</b>	<b>0.0361</b>	<b>0.5133</b>	<b>1.5900e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>158.7723</b>	<b>158.7723</b>	<b>4.1000e-003</b>		<b>158.8748</b>

**3.6 Utility Installation/Streets - 2024**

**Unmitigated Construction On-Site**

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



Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0561</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
<b>Total</b>	<b>0.0535</b>	<b>0.0329</b>	<b>0.4785</b>	<b>1.5400e-003</b>	<b>0.1677</b>	<b>1.2600e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1600e-003</b>	<b>0.0456</b>		<b>153.8517</b>	<b>153.8517</b>	<b>3.7600e-003</b>		<b>153.9458</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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0561</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</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	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	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
<b>Total</b>	<b>0.0535</b>	<b>0.0329</b>	<b>0.4785</b>	<b>1.5400e-003</b>	<b>0.1677</b>	<b>1.2600e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1600e-003</b>	<b>0.0456</b>		<b>153.8517</b>	<b>153.8517</b>	<b>3.7600e-003</b>		<b>153.9458</b>

**3.7 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.4268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>29.5977</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2424	0.1388	2.0781	7.1600e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		713.7597	713.7597	0.0157		714.1532
<b>Total</b>	<b>0.2424</b>	<b>0.1388</b>	<b>2.0781</b>	<b>7.1600e-003</b>	<b>0.8383</b>	<b>5.9500e-003</b>	<b>0.8443</b>	<b>0.2223</b>	<b>5.4700e-003</b>	<b>0.2278</b>		<b>713.7597</b>	<b>713.7597</b>	<b>0.0157</b>		<b>714.1532</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	29.4268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>29.5977</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	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	0.2424	0.1388	2.0781	7.1600e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		713.7597	713.7597	0.0157		714.1532
<b>Total</b>	<b>0.2424</b>	<b>0.1388</b>	<b>2.0781</b>	<b>7.1600e-003</b>	<b>0.8383</b>	<b>5.9500e-003</b>	<b>0.8443</b>	<b>0.2223</b>	<b>5.4700e-003</b>	<b>0.2278</b>		<b>713.7597</b>	<b>713.7597</b>	<b>0.0157</b>		<b>714.1532</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	2.4282	10.9917	32.4338	0.1392	13.0037	0.0984	13.1021	3.4789	0.0914	3.5703		14,220.9330	14,220.9330	0.6114		14,236.2181
Unmitigated	2.4282	10.9917	32.4338	0.1392	13.0037	0.0984	13.1021	3.4789	0.0914	3.5703		14,220.9330	14,220.9330	0.6114		14,236.2181

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,024.48	1,098.96	943.92	3,497,836	3,497,836
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	663.78	691.16	459.54	2,181,900	2,181,900
<b>Total</b>	<b>1,688.26</b>	<b>1,790.12</b>	<b>1,403.46</b>	<b>5,679,736</b>	<b>5,679,736</b>

### 4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %

Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Other Non-Asphalt Surfaces	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Parking Lot	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Single Family Housing	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
NaturalGas Unmitigated	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982

#### 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6804.51	0.0734	0.6271	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507		800.5302	800.5302	0.0153	0.0147	805.2874
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5570.19	0.0601	0.5133	0.2184	3.2800e-003		0.0415	0.0415		0.0415	0.0415		655.3166	655.3166	0.0126	0.0120	659.2108
<b>Total</b>		<b>0.1335</b>	<b>1.1404</b>	<b>0.4853</b>	<b>7.2800e-003</b>		<b>0.0922</b>	<b>0.0922</b>		<b>0.0922</b>	<b>0.0922</b>		<b>1,455.8468</b>	<b>1,455.8468</b>	<b>0.0279</b>	<b>0.0267</b>	<b>1,464.4982</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6.80451	0.0734	0.6271	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507		800.5302	800.5302	0.0153	0.0147	805.2874
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.57019	0.0601	0.5133	0.2184	3.2800e-003		0.0415	0.0415		0.0415	0.0415		655.3166	655.3166	0.0126	0.0120	659.2108
<b>Total</b>		<b>0.1335</b>	<b>1.1404</b>	<b>0.4853</b>	<b>7.2800e-003</b>		<b>0.0922</b>	<b>0.0922</b>		<b>0.0922</b>	<b>0.0922</b>		<b>1,455.8468</b>	<b>1,455.8468</b>	<b>0.0279</b>	<b>0.0267</b>	<b>1,464.4982</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Unmitigated	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537

## 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	0.5321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3729	3.1866	1.3560	0.0203		0.2576	0.2576		0.2576	0.2576	0.0000	4,068.0000	4,068.0000	0.0780	0.0746	4,092.1741
Landscaping	0.5594	0.2146	18.6290	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5757	33.5757	0.0322		34.3796

<b>Total</b>	<b>7.3121</b>	<b>3.4012</b>	<b>19.9850</b>	<b>0.0213</b>		<b>0.3610</b>	<b>0.3610</b>		<b>0.3610</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,101.5757</b>	<b>4,101.5757</b>	<b>0.1101</b>	<b>0.0746</b>	<b>4,126.5537</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	0.5321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3729	3.1866	1.3560	0.0203		0.2576	0.2576		0.2576	0.2576	0.0000	4,068.0000	4,068.0000	0.0780	0.0746	4,092.1741
Landscaping	0.5594	0.2146	18.6290	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5757	33.5757	0.0322		34.3796
<b>Total</b>	<b>7.3121</b>	<b>3.4012</b>	<b>19.9850</b>	<b>0.0213</b>		<b>0.3610</b>	<b>0.3610</b>		<b>0.3610</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,101.5757</b>	<b>4,101.5757</b>	<b>0.1101</b>	<b>0.0746</b>	<b>4,126.5537</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**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 Stationary Equipment

---

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

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

## 11.0 Vegetation

---

Long Beach Riverpark - Los Angeles-South Coast County, Winter

**Long Beach Riverpark**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	9.07	Acre	9.07	395,089.20	0
Parking Lot	3.94	Acre	3.94	171,626.40	0
Apartments Low Rise	152.00	Dwelling Unit	3.79	152,000.00	435
Single Family Housing	74.00	Dwelling Unit	3.54	133,200.00	212

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2027
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<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 - Carbon factor adjusted per 2017 Edison Sustainability Report.

Land Use - Project site is 20.34 acres in size.

Construction Phase - Estimated construction schedule.

Grading - 43,468 cy soil import.

Vehicle Trips - Trip rates based on project traffic study.

Woodstoves - No woodstoves.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures per SCAQMD Rule 403.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	370.00	740.00
tblConstructionPhase	NumDays	35.00	66.00
tblConstructionPhase	NumDays	20.00	152.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	10.00	169.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	15.20	0.00
tblFireplaces	NumberNoFireplace	7.40	0.00
tblFireplaces	NumberWood	7.60	0.00
tblFireplaces	NumberWood	3.70	0.00
tblGrading	MaterialImported	0.00	43,468.00
tblLandUse	LotAcreage	9.50	3.79
tblLandUse	LotAcreage	24.03	3.54
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	7.16	7.23
tblVehicleTrips	ST_TR	9.91	9.34
tblVehicleTrips	SU_TR	6.07	6.21
tblVehicleTrips	SU_TR	8.62	6.21
tblVehicleTrips	WD_TR	6.59	6.74

tblVehicleTrips	WD_TR	9.52	8.97
tblWoodstoves	NumberCatalytic	7.60	0.00
tblWoodstoves	NumberCatalytic	3.70	0.00
tblWoodstoves	NumberNoncatalytic	7.60	0.00
tblWoodstoves	NumberNoncatalytic	3.70	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2022	3.2508	33.1365	20.3083	0.0399	18.2675	1.6142	19.8816	9.9840	1.4850	11.4691	0.0000	3,872.2844	3,872.2844	1.1973	0.0000	3,902.2162
2023	7.2565	71.7394	64.2208	0.2160	18.2675	2.1929	19.5350	9.9840	2.0334	11.1502	0.0000	21,982.5280	21,982.5280	3.2707	0.0000	22,064.2943
2024	4.3390	32.0433	44.7623	0.1154	5.0972	1.1242	6.2214	1.3688	1.0473	2.4161	0.0000	11,512.4460	11,512.4460	1.5787	0.0000	11,551.9126
2025	3.0412	21.3619	28.7677	0.0895	4.9296	0.5678	5.4974	1.3244	0.5337	1.8580	0.0000	9,004.9321	9,004.9321	0.8475	0.0000	9,026.1183
2026	32.8464	22.5205	31.7485	0.0979	5.7679	0.6240	6.3919	1.5467	0.5895	2.1362	0.0000	9,822.5254	9,822.5254	0.8683	0.0000	9,844.2333
<b>Maximum</b>	<b>32.8464</b>	<b>71.7394</b>	<b>64.2208</b>	<b>0.2160</b>	<b>18.2675</b>	<b>2.1929</b>	<b>19.8816</b>	<b>9.9840</b>	<b>2.0334</b>	<b>11.4691</b>	<b>0.0000</b>	<b>21,982.5280</b>	<b>21,982.5280</b>	<b>3.2707</b>	<b>0.0000</b>	<b>22,064.2943</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2508	33.1365	20.3083	0.0399	6.1902	1.6142	7.8043	3.3454	1.4850	4.8304	0.0000	3,872.2844	3,872.2844	1.1973	0.0000	3,902.2162
2023	7.2565	71.7394	64.2208	0.2160	9.4928	2.1929	11.6856	3.3454	2.0334	5.0077	0.0000	21,982.5280	21,982.5280	3.2707	0.0000	22,064.2943
2024	4.3390	32.0433	44.7623	0.1154	5.0972	1.1242	6.2214	1.3688	1.0473	2.4161	0.0000	11,512.4460	11,512.4460	1.5787	0.0000	11,551.9125
2025	3.0412	21.3619	28.7677	0.0895	4.9296	0.5678	5.4974	1.3244	0.5337	1.8580	0.0000	9,004.9321	9,004.9321	0.8475	0.0000	9,026.1183
2026	32.8464	22.5205	31.7485	0.0979	5.7679	0.6240	6.3919	1.5467	0.5895	2.1362	0.0000	9,822.5254	9,822.5254	0.8683	0.0000	9,844.2333
<b>Maximum</b>	<b>32.8464</b>	<b>71.7394</b>	<b>64.2208</b>	<b>0.2160</b>	<b>9.4928</b>	<b>2.1929</b>	<b>11.6856</b>	<b>3.3454</b>	<b>2.0334</b>	<b>5.0077</b>	<b>0.0000</b>	<b>21,982.5280</b>	<b>21,982.5280</b>	<b>3.2707</b>	<b>0.0000</b>	<b>22,064.2943</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>39.85</b>	<b>0.00</b>	<b>34.64</b>	<b>54.85</b>	<b>0.00</b>	<b>44.03</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>

## 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	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Energy	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
Mobile	2.3525	11.2085	30.6965	0.1326	13.0037	0.0987	13.1024	3.4789	0.0917	3.5706		13,557.8613	13,557.8613	0.6112		13,573.1408

<b>Total</b>	<b>9.7980</b>	<b>15.7501</b>	<b>51.1668</b>	<b>0.1612</b>	<b>13.0037</b>	<b>0.5519</b>	<b>13.5556</b>	<b>3.4789</b>	<b>0.5449</b>	<b>4.0238</b>	<b>0.0000</b>	<b>19,115.2838</b>	<b>19,115.2838</b>	<b>0.7492</b>	<b>0.1013</b>	<b>19,164.1926</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	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Energy	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
Mobile	2.3525	11.2085	30.6965	0.1326	13.0037	0.0987	13.1024	3.4789	0.0917	3.5706		13,557.8613	13,557.8613	0.6112		13,573.1408
<b>Total</b>	<b>9.7980</b>	<b>15.7501</b>	<b>51.1668</b>	<b>0.1612</b>	<b>13.0037</b>	<b>0.5519</b>	<b>13.5556</b>	<b>3.4789</b>	<b>0.5449</b>	<b>4.0238</b>	<b>0.0000</b>	<b>19,115.2838</b>	<b>19,115.2838</b>	<b>0.7492</b>	<b>0.1013</b>	<b>19,164.1926</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>0.00</b>	<b>0.00</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	Site Clearing	Site Preparation	10/1/2022	10/8/2022	5	5	1
2	Bioremediation	Site Preparation	10/9/2022	6/1/2023	5	169	2
3	Grading	Grading	6/2/2023	9/1/2023	5	66	3
4	Building Construction	Building Construction	8/1/2023	6/1/2026	5	740	5
5	Utility Installation/Streets	Paving	12/1/2023	7/1/2024	5	152	4
6	Architectural Coating	Architectural Coating	3/1/2026	6/1/2026	5	66	6

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 165

Acres of Paving: 13.01

Residential Indoor: 577,530; Residential Outdoor: 192,510; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Clearing	Rubber Tired Dozers	3	8.00	247	0.40
Site Clearing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Bioremediation	Rubber Tired Dozers	3	8.00	247	0.40
Bioremediation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Installation/Streets	Pavers	2	8.00	130	0.42
Utility Installation/Streets	Paving Equipment	2	8.00	132	0.36
Utility Installation/Streets	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	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
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
------------	-------------------------	--------------------	--------------------	---------------------	--------------------	--------------------	---------------------	----------------------	----------------------	-----------------------

Site Clearing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Bioremediation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,434.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Installation/Streets	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	374.00	117.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Clearing - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

#### Unmitigated Construction Off-Site



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
<b>Total</b>	<b>0.0806</b>	<b>0.0530</b>	<b>0.6105</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>186.2225</b>	<b>186.2225</b>	<b>5.1300e-003</b>		<b>186.3507</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>5.9890</b>	<b>1.6126</b>	<b>7.6015</b>	<b>3.2920</b>	<b>1.4836</b>	<b>4.7756</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	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	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
<b>Total</b>	<b>0.0806</b>	<b>0.0530</b>	<b>0.6105</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>186.2225</b>	<b>186.2225</b>	<b>5.1300e-003</b>		<b>186.3507</b>

### 3.3 Bioremediation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
<b>Total</b>	<b>0.0806</b>	<b>0.0530</b>	<b>0.6105</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>186.2225</b>	<b>186.2225</b>	<b>5.1300e-003</b>		<b>186.3507</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>5.9890</b>	<b>1.6126</b>	<b>7.6015</b>	<b>3.2920</b>	<b>1.4836</b>	<b>4.7756</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	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	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
<b>Total</b>	<b>0.0806</b>	<b>0.0530</b>	<b>0.6105</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>186.2225</b>	<b>186.2225</b>	<b>5.1300e-003</b>		<b>186.3507</b>

**3.3 Bioremediation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.2660</b>	<b>19.3323</b>	<b>9.9307</b>	<b>1.1647</b>	<b>11.0954</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0759	0.0480	0.5612	1.8000e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		179.4097	179.4097	4.6200e-003		179.5251
<b>Total</b>	<b>0.0759</b>	<b>0.0480</b>	<b>0.5612</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>179.4097</b>	<b>179.4097</b>	<b>4.6200e-003</b>		<b>179.5251</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000

Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>5.9890</b>	<b>1.2660</b>	<b>7.2550</b>	<b>3.2920</b>	<b>1.1647</b>	<b>4.4568</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</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	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	0.0759	0.0480	0.5612	1.8000e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		179.4097	179.4097	4.6200e-003		179.5251
<b>Total</b>	<b>0.0759</b>	<b>0.0480</b>	<b>0.5612</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>179.4097</b>	<b>179.4097</b>	<b>4.6200e-003</b>		<b>179.5251</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7478	0.0000	8.7478	3.6078	0.0000	3.6078			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.7478</b>	<b>1.4245</b>	<b>10.1723</b>	<b>3.6078</b>	<b>1.3105</b>	<b>4.9183</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4392	13.6299	4.8789	0.0596	1.4398	0.0252	1.4650	0.3947	0.0241	0.4188		6,484.8880	6,484.8880	0.4460		6,496.0377
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	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
<b>Total</b>	<b>0.5236</b>	<b>13.6832</b>	<b>5.5025</b>	<b>0.0616</b>	<b>1.6633</b>	<b>0.0269</b>	<b>1.6902</b>	<b>0.4540</b>	<b>0.0257</b>	<b>0.4796</b>		<b>6,684.2321</b>	<b>6,684.2321</b>	<b>0.4511</b>		<b>6,695.5100</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					2.8999	0.0000	2.8999	1.1960	0.0000	1.1960			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>2.8999</b>	<b>1.4245</b>	<b>4.3244</b>	<b>1.1960</b>	<b>1.3105</b>	<b>2.5065</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</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	lb/day										lb/day				
Hauling	0.4392	13.6299	4.8789	0.0596	1.4398	0.0252	1.4650	0.3947	0.0241	0.4188	6,484.8880	6,484.8880	0.4460		6,496.0377
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	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609	199.3441	199.3441	5.1300e-003		199.4724
<b>Total</b>	<b>0.5236</b>	<b>13.6832</b>	<b>5.5025</b>	<b>0.0616</b>	<b>1.6633</b>	<b>0.0269</b>	<b>1.6902</b>	<b>0.4540</b>	<b>0.0257</b>	<b>0.4796</b>	<b>6,684.2321</b>	<b>6,684.2321</b>	<b>0.4511</b>		<b>6,695.5100</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079			2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>			<b>2,570.4061</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2604	8.1594	2.7631	0.0281	0.7491	9.9600e-003	0.7590	0.2157	9.5200e-003	0.2252		3,003.8733	3,003.8733	0.1715		3,008.1614

Worker	1.5780	0.9963	11.6601	0.0374	4.1804	0.0318	4.2122	1.1087	0.0293	1.1380		3,727.7349	3,727.7349	0.0959		3,730.1333
<b>Total</b>	<b>1.8383</b>	<b>9.1558</b>	<b>14.4232</b>	<b>0.0655</b>	<b>4.9295</b>	<b>0.0418</b>	<b>4.9713</b>	<b>1.3244</b>	<b>0.0388</b>	<b>1.3631</b>		<b>6,731.6083</b>	<b>6,731.6083</b>	<b>0.2675</b>		<b>6,738.2946</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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	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	0.2604	8.1594	2.7631	0.0281	0.7491	9.9600e-003	0.7590	0.2157	9.5200e-003	0.2252		3,003.8733	3,003.8733	0.1715		3,008.1614
Worker	1.5780	0.9963	11.6601	0.0374	4.1804	0.0318	4.2122	1.1087	0.0293	1.1380		3,727.7349	3,727.7349	0.0959		3,730.1333
<b>Total</b>	<b>1.8383</b>	<b>9.1558</b>	<b>14.4232</b>	<b>0.0655</b>	<b>4.9295</b>	<b>0.0418</b>	<b>4.9713</b>	<b>1.3244</b>	<b>0.0388</b>	<b>1.3631</b>		<b>6,731.6083</b>	<b>6,731.6083</b>	<b>0.2675</b>		<b>6,738.2946</b>

**3.5 Building Construction - 2024**



**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2540	8.1302	2.6793	0.0279	0.7491	9.7900e-003	0.7589	0.2157	9.3500e-003	0.2250		2,992.2232	2,992.2232	0.1689		2,996.4462
Worker	1.4974	0.9084	10.8551	0.0362	4.1804	0.0313	4.2118	1.1087	0.0289	1.1375		3,612.1061	3,612.1061	0.0879		3,614.3036
<b>Total</b>	<b>1.7513</b>	<b>9.0385</b>	<b>13.5344</b>	<b>0.0642</b>	<b>4.9295</b>	<b>0.0411</b>	<b>4.9707</b>	<b>1.3244</b>	<b>0.0382</b>	<b>1.3626</b>		<b>6,604.3293</b>	<b>6,604.3293</b>	<b>0.2568</b>		<b>6,610.7499</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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</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	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	0.2540	8.1302	2.6793	0.0279	0.7491	9.7900e-003	0.7589	0.2157	9.3500e-003	0.2250		2,992.2232	2,992.2232	0.1689		2,996.4462
Worker	1.4974	0.9084	10.8551	0.0362	4.1804	0.0313	4.2118	1.1087	0.0289	1.1375		3,612.1061	3,612.1061	0.0879		3,614.3036
<b>Total</b>	<b>1.7513</b>	<b>9.0385</b>	<b>13.5344</b>	<b>0.0642</b>	<b>4.9295</b>	<b>0.0411</b>	<b>4.9707</b>	<b>1.3244</b>	<b>0.0382</b>	<b>1.3626</b>		<b>6,604.3293</b>	<b>6,604.3293</b>	<b>0.2568</b>		<b>6,610.7499</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2475	8.0613	2.6109	0.0278	0.7491	9.6000e-003	0.7587	0.2157	9.1700e-003	0.2249		2,976.1787	2,976.1787	0.1664		2,980.3383
Worker	1.4263	0.8309	10.0721	0.0348	4.1804	0.0307	4.2111	1.1087	0.0283	1.1369		3,472.2790	3,472.2790	0.0801		3,474.2819
<b>Total</b>	<b>1.6738</b>	<b>8.8922</b>	<b>12.6830</b>	<b>0.0626</b>	<b>4.9296</b>	<b>0.0403</b>	<b>4.9698</b>	<b>1.3244</b>	<b>0.0374</b>	<b>1.3618</b>		<b>6,448.4577</b>	<b>6,448.4577</b>	<b>0.2465</b>		<b>6,454.6202</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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</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	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	0.2475	8.0613	2.6109	0.0278	0.7491	9.6000e-003	0.7587	0.2157	9.1700e-003	0.2249		2,976.1787	2,976.1787	0.1664			2,980.3383
Worker	1.4263	0.8309	10.0721	0.0348	4.1804	0.0307	4.2111	1.1087	0.0283	1.1369		3,472.2790	3,472.2790	0.0801			3,474.2819
<b>Total</b>	<b>1.6738</b>	<b>8.8922</b>	<b>12.6830</b>	<b>0.0626</b>	<b>4.9296</b>	<b>0.0403</b>	<b>4.9698</b>	<b>1.3244</b>	<b>0.0374</b>	<b>1.3618</b>		<b>6,448.4577</b>	<b>6,448.4577</b>	<b>0.2465</b>			<b>6,454.6202</b>

### 3.5 Building Construction - 2026

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010			2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>			<b>2,571.4981</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000
Vendor	0.2418	7.9864	2.5581	0.0276	0.7491	9.3800e-003	0.7585	0.2157	8.9600e-003	0.2247		2,960.7861	2,960.7861	0.1639		2,964.8827
Worker	1.3656	0.7654	9.4096	0.0336	4.1804	0.0297	4.2101	1.1087	0.0273	1.1360		3,351.6871	3,351.6871	0.0734		3,353.5227
<b>Total</b>	<b>1.6074</b>	<b>8.7518</b>	<b>11.9677</b>	<b>0.0612</b>	<b>4.9296</b>	<b>0.0390</b>	<b>4.9686</b>	<b>1.3244</b>	<b>0.0362</b>	<b>1.3606</b>		<b>6,312.4732</b>	<b>6,312.4732</b>	<b>0.2373</b>		<b>6,318.4055</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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</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	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	0.2418	7.9864	2.5581	0.0276	0.7491	9.3800e-003	0.7585	0.2157	8.9600e-003	0.2247		2,960.7861	2,960.7861	0.1639		2,964.8827
Worker	1.3656	0.7654	9.4096	0.0336	4.1804	0.0297	4.2101	1.1087	0.0273	1.1360		3,351.6871	3,351.6871	0.0734		3,353.5227

<b>Total</b>	1.6074	8.7518	11.9677	0.0612	4.9296	0.0390	4.9686	1.3244	0.0362	1.3606		6,312.473 2	6,312.4732	0.2373		6,318.4055
--------------	--------	--------	---------	--------	--------	--------	--------	--------	--------	--------	--	----------------	------------	--------	--	------------

### 3.6 Utility Installation/Streets - 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
<b>Category</b>	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.5841	0.7140		2,225.4336
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1007</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.584 1</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Category</b>	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	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
<b>Total</b>	<b>0.0633</b>	<b>0.0400</b>	<b>0.4677</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>149.5081</b>	<b>149.5081</b>	<b>3.8500e-003</b>		<b>149.6043</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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1007</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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	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	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
<b>Total</b>	<b>0.0633</b>	<b>0.0400</b>	<b>0.4677</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>149.5081</b>	<b>149.5081</b>	<b>3.8500e-003</b>		<b>149.6043</b>

**3.6 Utility Installation/Streets - 2024**

**Unmitigated Construction On-Site**

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

Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0561</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
<b>Total</b>	<b>0.0601</b>	<b>0.0364</b>	<b>0.4354</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.2600e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1600e-003</b>	<b>0.0456</b>		<b>144.8706</b>	<b>144.8706</b>	<b>3.5300e-003</b>		<b>144.9587</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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0561</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</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	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	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
<b>Total</b>	<b>0.0601</b>	<b>0.0364</b>	<b>0.4354</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.2600e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1600e-003</b>	<b>0.0456</b>		<b>144.8706</b>	<b>144.8706</b>	<b>3.5300e-003</b>		<b>144.9587</b>

**3.7 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.4268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>29.5977</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2739	0.1535	1.8870	6.7400e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		672.1298	672.1298	0.0147		672.4979
<b>Total</b>	<b>0.2739</b>	<b>0.1535</b>	<b>1.8870</b>	<b>6.7400e-003</b>	<b>0.8383</b>	<b>5.9500e-003</b>	<b>0.8443</b>	<b>0.2223</b>	<b>5.4700e-003</b>	<b>0.2278</b>		<b>672.1298</b>	<b>672.1298</b>	<b>0.0147</b>		<b>672.4979</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	29.4268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>29.5977</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	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	0.0000	0.0000
Worker	0.2739	0.1535	1.8870	6.7400e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		672.1298	672.1298	0.0147		672.4979
<b>Total</b>	<b>0.2739</b>	<b>0.1535</b>	<b>1.8870</b>	<b>6.7400e-003</b>	<b>0.8383</b>	<b>5.9500e-003</b>	<b>0.8443</b>	<b>0.2223</b>	<b>5.4700e-003</b>	<b>0.2278</b>		<b>672.1298</b>	<b>672.1298</b>	<b>0.0147</b>		<b>672.4979</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	2.3525	11.2085	30.6965	0.1326	13.0037	0.0987	13.1024	3.4789	0.0917	3.5706		13,557.8613	13,557.8613	0.6112		13,573.1408
Unmitigated	2.3525	11.2085	30.6965	0.1326	13.0037	0.0987	13.1024	3.4789	0.0917	3.5706		13,557.8613	13,557.8613	0.6112		13,573.1408

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,024.48	1,098.96	943.92	3,497,836	3,497,836
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	663.78	691.16	459.54	2,181,900	2,181,900
<b>Total</b>	<b>1,688.26</b>	<b>1,790.12</b>	<b>1,403.46</b>	<b>5,679,736</b>	<b>5,679,736</b>

### 4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %

Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Other Non-Asphalt Surfaces	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Parking Lot	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Single Family Housing	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
NaturalGas Mitigated	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
NaturalGas Unmitigated	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982

#### 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6804.51	0.0734	0.6271	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507		800.5302	800.5302	0.0153	0.0147	805.2874
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5570.19	0.0601	0.5133	0.2184	3.2800e-003		0.0415	0.0415		0.0415	0.0415		655.3166	655.3166	0.0126	0.0120	659.2108
<b>Total</b>		<b>0.1335</b>	<b>1.1404</b>	<b>0.4853</b>	<b>7.2800e-003</b>		<b>0.0922</b>	<b>0.0922</b>		<b>0.0922</b>	<b>0.0922</b>		<b>1,455.8468</b>	<b>1,455.8468</b>	<b>0.0279</b>	<b>0.0267</b>	<b>1,464.4982</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6.80451	0.0734	0.6271	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507		800.5302	800.5302	0.0153	0.0147	805.2874
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.57019	0.0601	0.5133	0.2184	3.2800e-003		0.0415	0.0415		0.0415	0.0415		655.3166	655.3166	0.0126	0.0120	659.2108
<b>Total</b>		<b>0.1335</b>	<b>1.1404</b>	<b>0.4853</b>	<b>7.2800e-003</b>		<b>0.0922</b>	<b>0.0922</b>		<b>0.0922</b>	<b>0.0922</b>		<b>1,455.8468</b>	<b>1,455.8468</b>	<b>0.0279</b>	<b>0.0267</b>	<b>1,464.4982</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Unmitigated	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537

## 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	0.5321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3729	3.1866	1.3560	0.0203		0.2576	0.2576		0.2576	0.2576	0.0000	4,068.0000	4,068.0000	0.0780	0.0746	4,092.1741
Landscaping	0.5594	0.2146	18.6290	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5757	33.5757	0.0322		34.3796

<b>Total</b>	<b>7.3121</b>	<b>3.4012</b>	<b>19.9850</b>	<b>0.0213</b>		<b>0.3610</b>	<b>0.3610</b>		<b>0.3610</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,101.5757</b>	<b>4,101.5757</b>	<b>0.1101</b>	<b>0.0746</b>	<b>4,126.5537</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	0.5321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3729	3.1866	1.3560	0.0203		0.2576	0.2576		0.2576	0.2576	0.0000	4,068.0000	4,068.0000	0.0780	0.0746	4,092.1741
Landscaping	0.5594	0.2146	18.6290	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5757	33.5757	0.0322		34.3796
<b>Total</b>	<b>7.3121</b>	<b>3.4012</b>	<b>19.9850</b>	<b>0.0213</b>		<b>0.3610</b>	<b>0.3610</b>		<b>0.3610</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,101.5757</b>	<b>4,101.5757</b>	<b>0.1101</b>	<b>0.0746</b>	<b>4,126.5537</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**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 Stationary Equipment

---

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

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

## 11.0 Vegetation

---



Long Beach Riverpark - Los Angeles-South Coast County, Summer

**Long Beach Riverpark**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	9.07	Acre	9.07	395,089.20	0
Parking Lot	3.94	Acre	3.94	171,626.40	0
Apartments Low Rise	152.00	Dwelling Unit	3.79	152,000.00	435
Single Family Housing	74.00	Dwelling Unit	3.54	133,200.00	212

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9	<b>Operational Year</b>	2027		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	549	<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 - Carbon factor adjusted per 2017 Edison Sustainability Report.

Land Use - Project site is 20.34 acres in size.

Construction Phase - Estimated construction schedule.

Grading - 43,468 cy soil import.

Vehicle Trips - Trip rates based on project traffic study.

Woodstoves - No woodstoves.



tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	10.00	169.00
tblConstructionPhase	NumDays	35.00	66.00
tblConstructionPhase	NumDays	370.00	740.00
tblConstructionPhase	NumDays	20.00	152.00
tblConstructionPhase	NumDays	20.00	66.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	15.20	0.00
tblFireplaces	NumberNoFireplace	7.40	0.00
tblFireplaces	NumberWood	7.60	0.00
tblFireplaces	NumberWood	3.70	0.00
tblGrading	MaterialImported	0.00	43,468.00
tblLandUse	LotAcreage	9.50	3.79
tblLandUse	LotAcreage	24.03	3.54
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	7.16	7.23
tblVehicleTrips	ST_TR	9.91	9.34
tblVehicleTrips	SU_TR	6.07	6.21
tblVehicleTrips	SU_TR	8.62	6.21
tblVehicleTrips	WD_TR	6.59	6.74
tblVehicleTrips	WD_TR	9.52	8.97
tblWoodstoves	NumberCatalytic	7.60	0.00
tblWoodstoves	NumberCatalytic	3.70	0.00
tblWoodstoves	NumberNoncatalytic	7.60	0.00

tblWoodstoves	NumberNoncatalytic	3.70	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2022	3.2424	33.1314	20.3667	0.0400	18.2675	1.6142	19.8816	9.9840	1.4850	11.4691	0.0000	3,883.8301	3,883.8301	1.1976	0.0000	3,913.7702
2023	7.0562	71.5806	64.9948	0.2203	18.2675	2.1917	19.5350	9.9840	2.0323	11.1502	0.0000	22,424.3739	22,424.3739	3.2555	0.0000	22,505.7617
2024	4.1568	31.9879	45.6628	0.1185	5.0972	1.1238	6.2210	1.3688	1.0469	2.4157	0.0000	11,828.3208	11,828.3208	1.5757	0.0000	11,867.7135
2025	2.8697	21.3172	29.5633	0.0924	4.9296	0.5675	5.4970	1.3244	0.5333	1.8577	0.0000	9,302.1129	9,302.1129	0.8441	0.0000	9,323.2154
2026	32.6466	22.4672	32.6831	0.1011	5.7679	0.6237	6.3916	1.5467	0.5892	2.1359	0.0000	10,152.9346	10,152.9346	0.8659	0.0000	10,174.5813
<b>Maximum</b>	<b>32.6466</b>	<b>71.5806</b>	<b>64.9948</b>	<b>0.2203</b>	<b>18.2675</b>	<b>2.1917</b>	<b>19.8816</b>	<b>9.9840</b>	<b>2.0323</b>	<b>11.4691</b>	<b>0.0000</b>	<b>22,424.3739</b>	<b>22,424.3739</b>	<b>3.2555</b>	<b>0.0000</b>	<b>22,505.7617</b>

#### Mitigated Construction

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

Year	lb/day										lb/day					
2022	0.5378	2.0654	21.5379	0.0400	6.1902	0.0637	6.2538	3.3454	0.0635	3.4089	0.0000	3,883.8301	3,883.8301	1.1976	0.0000	3,913.7702
2023	3.2511	28.2149	71.1591	0.2203	9.4928	0.2098	9.7026	3.3454	0.2057	3.4089	0.0000	22,424.371	22,424.373	3.2555	0.0000	22,505.7617
2024	2.3054	12.4697	49.6261	0.1185	5.0972	0.1201	5.2173	1.3688	0.1171	1.4860	0.0000	11,828.3208	11,828.3208	1.5757	0.0000	11,867.7135
2025	1.8301	11.0822	30.9389	0.0924	4.9296	0.0807	5.0102	1.3244	0.0778	1.4022	0.0000	9,302.1129	9,302.1129	0.8441	0.0000	9,323.2154
2026	31.4659	11.2155	34.0820	0.1011	5.7679	0.0894	5.8573	1.5467	0.0861	1.6328	0.0000	10,152.9346	10,152.9346	0.8659	0.0000	10,174.5813
<b>Maximum</b>	<b>31.4659</b>	<b>28.2149</b>	<b>71.1591</b>	<b>0.2203</b>	<b>9.4928</b>	<b>0.2098</b>	<b>9.7026</b>	<b>3.3454</b>	<b>0.2057</b>	<b>3.4089</b>	<b>0.0000</b>	<b>22,424.3739</b>	<b>22,424.3739</b>	<b>3.2555</b>	<b>0.0000</b>	<b>22,505.7617</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>21.17</b>	<b>63.96</b>	<b>-7.28</b>	<b>0.00</b>	<b>39.85</b>	<b>90.79</b>	<b>44.30</b>	<b>54.85</b>	<b>90.32</b>	<b>60.94</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>

## 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	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Energy	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
Mobile	2.4282	10.9917	32.4338	0.1392	13.0037	0.0984	13.1021	3.4789	0.0914	3.5703		14,220.9330	14,220.9330	0.6114		14,236.2181
<b>Total</b>	<b>9.8737</b>	<b>15.5333</b>	<b>52.9041</b>	<b>0.1678</b>	<b>13.0037</b>	<b>0.5516</b>	<b>13.5553</b>	<b>3.4789</b>	<b>0.5446</b>	<b>4.0235</b>	<b>0.0000</b>	<b>19,778.3555</b>	<b>19,778.3555</b>	<b>0.7494</b>	<b>0.1013</b>	<b>19,827.2700</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	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Energy	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
Mobile	2.4282	10.9917	32.4338	0.1392	13.0037	0.0984	13.1021	3.4789	0.0914	3.5703		14,220.9330	14,220.9330	0.6114		14,236.2181
<b>Total</b>	<b>9.8737</b>	<b>15.5333</b>	<b>52.9041</b>	<b>0.1678</b>	<b>13.0037</b>	<b>0.5516</b>	<b>13.5553</b>	<b>3.4789</b>	<b>0.5446</b>	<b>4.0235</b>	<b>0.0000</b>	<b>19,778.3555</b>	<b>19,778.3555</b>	<b>0.7494</b>	<b>0.1013</b>	<b>19,827.2700</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	Site Clearing	Site Preparation	10/1/2022	10/8/2022	5	5	1
2	Bioremediation	Site Preparation	10/9/2022	6/1/2023	5	169	2
3	Grading	Grading	6/2/2023	9/1/2023	5	66	3
4	Building Construction	Building Construction	8/1/2023	6/1/2026	5	740	5
5	Utility Installation/Streets	Paving	12/1/2023	7/1/2024	5	152	4
6	Architectural Coating	Architectural Coating	3/1/2026	6/1/2026	5	66	6

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 165

Acres of Paving: 13.01

Residential Indoor: 577,530; Residential Outdoor: 192,510; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Clearing	Rubber Tired Dozers	3	8.00	247	0.40
Site Clearing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Bioremediation	Rubber Tired Dozers	3	8.00	247	0.40
Bioremediation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Installation/Streets	Pavers	2	8.00	130	0.42
Utility Installation/Streets	Paving Equipment	2	8.00	132	0.36
Utility Installation/Streets	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	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
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
Site Clearing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Bioremediation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,434.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Installation/Streets	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Building Construction	9	374.00	117.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Clearing - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
<b>Total</b>	<b>0.0723</b>	<b>0.0479</b>	<b>0.6689</b>	<b>1.9800e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>197.7682</b>	<b>197.7682</b>	<b>5.4600e-003</b>		<b>197.9047</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0380</b>	<b>5.9890</b>	<b>0.0621</b>	<b>6.0510</b>	<b>3.2920</b>	<b>0.0621</b>	<b>3.3541</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	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	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047

Total	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	-------------	--	----------

### 3.3 Bioremediation - 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						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922			3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>			<b>3,715.8655</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003			197.9047
<b>Total</b>	<b>0.0723</b>	<b>0.0479</b>	<b>0.6689</b>	<b>1.9800e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>197.7682</b>	<b>197.7682</b>	<b>5.4600e-003</b>			<b>197.9047</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0380</b>	<b>5.9890</b>	<b>0.0621</b>	<b>6.0510</b>	<b>3.2920</b>	<b>0.0621</b>	<b>3.3541</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	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	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
<b>Total</b>	<b>0.0723</b>	<b>0.0479</b>	<b>0.6689</b>	<b>1.9800e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>197.7682</b>	<b>197.7682</b>	<b>5.4600e-003</b>		<b>197.9047</b>

**3.3 Bioremediation - 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					

Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.2660</b>	<b>19.3323</b>	<b>9.9307</b>	<b>1.1647</b>	<b>11.0954</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0679	0.0433	0.6160	1.9100e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		190.5268	190.5268	4.9200e-003		190.6498
<b>Total</b>	<b>0.0679</b>	<b>0.0433</b>	<b>0.6160</b>	<b>1.9100e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>190.5268</b>	<b>190.5268</b>	<b>4.9200e-003</b>		<b>190.6498</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>5.9890</b>	<b>0.0621</b>	<b>6.0510</b>	<b>3.2920</b>	<b>0.0621</b>	<b>3.3541</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</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	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	0.0679	0.0433	0.6160	1.9100e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		190.5268	190.5268	4.9200e-003		190.6498
<b>Total</b>	<b>0.0679</b>	<b>0.0433</b>	<b>0.6160</b>	<b>1.9100e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>190.5268</b>	<b>190.5268</b>	<b>4.9200e-003</b>		<b>190.6498</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7478	0.0000	8.7478	3.6078	0.0000	3.6078			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.7478</b>	<b>1.4245</b>	<b>10.1723</b>	<b>3.6078</b>	<b>1.3105</b>	<b>4.9183</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4285	13.5348	4.6789	0.0606	1.4398	0.0245	1.4643	0.3947	0.0235	0.4181		6,599.5503	6,599.5503	0.4336		6,610.3899
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	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331
<b>Total</b>	<b>0.5039</b>	<b>13.5829</b>	<b>5.3634</b>	<b>0.0627</b>	<b>1.6633</b>	<b>0.0262</b>	<b>1.6895</b>	<b>0.4540</b>	<b>0.0250</b>	<b>0.4790</b>		<b>6,811.2467</b>	<b>6,811.2467</b>	<b>0.4391</b>		<b>6,822.2230</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					2.8999	0.0000	2.8999	1.1960	0.0000	1.1960			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>2.8999</b>	<b>0.1015</b>	<b>3.0014</b>	<b>1.1960</b>	<b>0.1015</b>	<b>1.2975</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</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	lb/day										lb/day					
Hauling	0.4285	13.5348	4.6789	0.0606	1.4398	0.0245	1.4643	0.3947	0.0235	0.4181		6,599.5503	6,599.5503	0.4336		6,610.3899

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0754	0.0482	0.6844	2.1200e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		211.6964	211.6964	5.4700e-003		211.8331
<b>Total</b>	<b>0.5039</b>	<b>13.5829</b>	<b>5.3634</b>	<b>0.0627</b>	<b>1.6633</b>	<b>0.0262</b>	<b>1.6895</b>	<b>0.4540</b>	<b>0.0250</b>	<b>0.4790</b>		<b>6,811.2467</b>	<b>6,811.2467</b>	<b>0.4391</b>		<b>6,822.2230</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2476	8.1966	2.5375	0.0288	0.7491	9.4700e-003	0.7586	0.2157	9.0500e-003	0.2247		3,087.7169	3,087.7169	0.1621		3,091.7700
Worker	1.4102	0.9006	12.7988	0.0397	4.1804	0.0318	4.2122	1.1087	0.0293	1.1380		3,958.7227	3,958.7227	0.1023		3,961.2791
<b>Total</b>	<b>1.6578</b>	<b>9.0972</b>	<b>15.3363</b>	<b>0.0685</b>	<b>4.9295</b>	<b>0.0413</b>	<b>4.9708</b>	<b>1.3244</b>	<b>0.0383</b>	<b>1.3627</b>		<b>7,046.4396</b>	<b>7,046.4396</b>	<b>0.2644</b>		<b>7,053.0491</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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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	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	0.2476	8.1966	2.5375	0.0288	0.7491	9.4700e-003	0.7586	0.2157	9.0500e-003	0.2247		3,087.7169	3,087.7169	0.1621		3,091.7700
Worker	1.4102	0.9006	12.7988	0.0397	4.1804	0.0318	4.2122	1.1087	0.0293	1.1380		3,958.7227	3,958.7227	0.1023		3,961.2791
<b>Total</b>	<b>1.6578</b>	<b>9.0972</b>	<b>15.3363</b>	<b>0.0685</b>	<b>4.9295</b>	<b>0.0413</b>	<b>4.9708</b>	<b>1.3244</b>	<b>0.0383</b>	<b>1.3627</b>		<b>7,046.4396</b>	<b>7,046.4396</b>	<b>0.2644</b>		<b>7,053.0491</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2417	8.1654	2.4602	0.0287	0.7491	9.3500e-003	0.7585	0.2157	8.9400e-003	0.2246		3,075.1862	3,075.1862	0.1598		3,079.1816
Worker	1.3340	0.8213	11.9314	0.0385	4.1804	0.0313	4.2118	1.1087	0.0289	1.1375		3,836.0367	3,836.0367	0.0938		3,838.3821
<b>Total</b>	<b>1.5757</b>	<b>8.9866</b>	<b>14.3917</b>	<b>0.0672</b>	<b>4.9295</b>	<b>0.0407</b>	<b>4.9702</b>	<b>1.3244</b>	<b>0.0378</b>	<b>1.3621</b>		<b>6,911.2229</b>	<b>6,911.2229</b>	<b>0.2536</b>		<b>6,917.5637</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
-------	--------	--------	---------	--------	--	--------	--------	--	--------	--------	--------	------------	------------	--------	--	------------

**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	0.2417	8.1654	2.4602	0.0287	0.7491	9.3500e-003	0.7585	0.2157	8.9400e-003	0.2246		3,075.1862	3,075.1862	0.1598		3,079.1816
Worker	1.3340	0.8213	11.9314	0.0385	4.1804	0.0313	4.2118	1.1087	0.0289	1.1375		3,836.0367	3,836.0367	0.0938		3,838.3821
<b>Total</b>	<b>1.5757</b>	<b>8.9866</b>	<b>14.3917</b>	<b>0.0672</b>	<b>4.9295</b>	<b>0.0407</b>	<b>4.9702</b>	<b>1.3244</b>	<b>0.0378</b>	<b>1.3621</b>		<b>6,911.2229</b>	<b>6,911.2229</b>	<b>0.2536</b>		<b>6,917.5637</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.2356	8.0961	2.3971	0.0285	0.7491	9.2100e-003	0.7583	0.2157	8.8000e-003	0.2245		3,058.2417	3,058.2417	0.1576			3,062.1811
Worker	1.2667	0.7514	11.0816	0.0370	4.1804	0.0307	4.2111	1.1087	0.0283	1.1369		3,687.3968	3,687.3968	0.0856			3,689.5363
<b>Total</b>	<b>1.5023</b>	<b>8.8475</b>	<b>13.4786</b>	<b>0.0655</b>	<b>4.9296</b>	<b>0.0399</b>	<b>4.9695</b>	<b>1.3244</b>	<b>0.0371</b>	<b>1.3614</b>		<b>6,745.6385</b>	<b>6,745.6385</b>	<b>0.2432</b>			<b>6,751.7173</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.4744	2,556.4744	0.6010			2,571.4981
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>			<b>2,571.4981</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	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	0.0000	0.0000
Vendor	0.2356	8.0961	2.3971	0.0285	0.7491	9.2100e-003	0.7583	0.2157	8.8000e-003	0.2245	3,058.2417	3,058.2417	0.1576		3,062.1811	
Worker	1.2667	0.7514	11.0816	0.0370	4.1804	0.0307	4.2111	1.1087	0.0283	1.1369	3,687.3968	3,687.3968	0.0856		3,689.5363	
<b>Total</b>	<b>1.5023</b>	<b>8.8475</b>	<b>13.4786</b>	<b>0.0655</b>	<b>4.9296</b>	<b>0.0399</b>	<b>4.9695</b>	<b>1.3244</b>	<b>0.0371</b>	<b>1.3614</b>	<b>6,745.6385</b>	<b>6,745.6385</b>	<b>0.2432</b>		<b>6,751.7173</b>	

### 3.5 Building Construction - 2026

#### Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.2303	8.0209	2.3487	0.0283	0.7491	9.0300e-003	0.7582	0.2157	8.6300e-003	0.2243	3,041.9706	3,041.9706	0.1553			3,045.8541

Worker	1.2088	0.6923	10.3626	0.0357	4.1804	0.0297	4.2101	1.1087	0.0273	1.1360		3,559.2818	3,559.2818	0.0785		3,561.2440
<b>Total</b>	<b>1.4391</b>	<b>8.7132</b>	<b>12.7113</b>	<b>0.0640</b>	<b>4.9296</b>	<b>0.0387</b>	<b>4.9683</b>	<b>1.3244</b>	<b>0.0359</b>	<b>1.3603</b>		<b>6,601.2525</b>	<b>6,601.2525</b>	<b>0.2338</b>		<b>6,607.0981</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</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	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	0.2303	8.0209	2.3487	0.0283	0.7491	9.0300e-003	0.7582	0.2157	8.6300e-003	0.2243		3,041.9706	3,041.9706	0.1553		3,045.8541
Worker	1.2088	0.6923	10.3626	0.0357	4.1804	0.0297	4.2101	1.1087	0.0273	1.1360		3,559.2818	3,559.2818	0.0785		3,561.2440
<b>Total</b>	<b>1.4391</b>	<b>8.7132</b>	<b>12.7113</b>	<b>0.0640</b>	<b>4.9296</b>	<b>0.0387</b>	<b>4.9683</b>	<b>1.3244</b>	<b>0.0359</b>	<b>1.3603</b>		<b>6,601.2525</b>	<b>6,601.2525</b>	<b>0.2338</b>		<b>6,607.0981</b>

**3.6 Utility Installation/Streets - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1007</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
<b>Total</b>	<b>0.0566</b>	<b>0.0361</b>	<b>0.5133</b>	<b>1.5900e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>158.7723</b>	<b>158.7723</b>	<b>4.1000e-003</b>		<b>158.8748</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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3484</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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	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	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
<b>Total</b>	<b>0.0566</b>	<b>0.0361</b>	<b>0.5133</b>	<b>1.5900e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>158.7723</b>	<b>158.7723</b>	<b>4.1000e-003</b>		<b>158.8748</b>

### 3.6 Utility Installation/Streets - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

<b>Total</b>	<b>1.0561</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>
--------------	---------------	---------------	----------------	---------------	--	---------------	---------------	--	---------------	---------------	--	-------------------	-------------------	---------------	--	-------------------

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
<b>Total</b>	<b>0.0535</b>	<b>0.0329</b>	<b>0.4785</b>	<b>1.5400e-003</b>	<b>0.1677</b>	<b>1.2600e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1600e-003</b>	<b>0.0456</b>		<b>153.8517</b>	<b>153.8517</b>	<b>3.7600e-003</b>		<b>153.9458</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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3484</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</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	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	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
<b>Total</b>	<b>0.0535</b>	<b>0.0329</b>	<b>0.4785</b>	<b>1.5400e-003</b>	<b>0.1677</b>	<b>1.2600e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1600e-003</b>	<b>0.0456</b>		<b>153.8517</b>	<b>153.8517</b>	<b>3.7600e-003</b>		<b>153.9458</b>

**3.7 Architectural Coating - 2026**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.4268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>29.5977</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2424	0.1388	2.0781	7.1600e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		713.7597	713.7597	0.0157		714.1532
<b>Total</b>	<b>0.2424</b>	<b>0.1388</b>	<b>2.0781</b>	<b>7.1600e-003</b>	<b>0.8383</b>	<b>5.9500e-003</b>	<b>0.8443</b>	<b>0.2223</b>	<b>5.4700e-003</b>	<b>0.2278</b>		<b>713.7597</b>	<b>713.7597</b>	<b>0.0157</b>		<b>714.1532</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	29.4268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>29.4566</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	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	0.2424	0.1388	2.0781	7.1600e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		713.7597	713.7597	0.0157		714.1532

Total	0.2424	0.1388	2.0781	7.1600e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		713.7597	713.7597	0.0157		714.1532
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	--------	--	----------

## 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	2.4282	10.9917	32.4338	0.1392	13.0037	0.0984	13.1021	3.4789	0.0914	3.5703		14,220.9330	14,220.9330	0.6114		14,236.2181
Unmitigated	2.4282	10.9917	32.4338	0.1392	13.0037	0.0984	13.1021	3.4789	0.0914	3.5703		14,220.9330	14,220.9330	0.6114		14,236.2181

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,024.48	1,098.96	943.92	3,497,836	3,497,836
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	663.78	691.16	459.54	2,181,900	2,181,900
Total	1,688.26	1,790.12	1,403.46	5,679,736	5,679,736

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Other Non-Asphalt Surfaces	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Parking Lot	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Single Family Housing	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
NaturalGas Unmitigated	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6804.51	0.0734	0.6271	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507		800.5302	800.5302	0.0153	0.0147	805.2874
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5570.19	0.0601	0.5133	0.2184	3.2800e-003		0.0415	0.0415		0.0415	0.0415		655.3166	655.3166	0.0126	0.0120	659.2108
<b>Total</b>		<b>0.1335</b>	<b>1.1404</b>	<b>0.4853</b>	<b>7.2800e-003</b>		<b>0.0922</b>	<b>0.0922</b>		<b>0.0922</b>	<b>0.0922</b>		<b>1,455.8468</b>	<b>1,455.8468</b>	<b>0.0279</b>	<b>0.0267</b>	<b>1,464.4982</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6.80451	0.0734	0.6271	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507		800.5302	800.5302	0.0153	0.0147	805.2874
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.57019	0.0601	0.5133	0.2184	3.2800e-003		0.0415	0.0415		0.0415	0.0415		655.3166	655.3166	0.0126	0.0120	659.2108
<b>Total</b>		<b>0.1335</b>	<b>1.1404</b>	<b>0.4853</b>	<b>7.2800e-003</b>		<b>0.0922</b>	<b>0.0922</b>		<b>0.0922</b>	<b>0.0922</b>		<b>1,455.8468</b>	<b>1,455.8468</b>	<b>0.0279</b>	<b>0.0267</b>	<b>1,464.4982</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Unmitigated	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537

## 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	0.5321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3729	3.1866	1.3560	0.0203		0.2576	0.2576		0.2576	0.2576	0.0000	4,068.0000	4,068.0000	0.0780	0.0746	4,092.1741
Landscaping	0.5594	0.2146	18.6290	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5757	33.5757	0.0322		34.3796

<b>Total</b>	<b>7.3121</b>	<b>3.4012</b>	<b>19.9850</b>	<b>0.0213</b>		<b>0.3610</b>	<b>0.3610</b>		<b>0.3610</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,101.5757</b>	<b>4,101.5757</b>	<b>0.1101</b>	<b>0.0746</b>	<b>4,126.5537</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	0.5321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3729	3.1866	1.3560	0.0203		0.2576	0.2576		0.2576	0.2576	0.0000	4,068.0000	4,068.0000	0.0780	0.0746	4,092.1741
Landscaping	0.5594	0.2146	18.6290	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5757	33.5757	0.0322		34.3796
<b>Total</b>	<b>7.3121</b>	<b>3.4012</b>	<b>19.9850</b>	<b>0.0213</b>		<b>0.3610</b>	<b>0.3610</b>		<b>0.3610</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,101.5757</b>	<b>4,101.5757</b>	<b>0.1101</b>	<b>0.0746</b>	<b>4,126.5537</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**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 Stationary Equipment

---

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

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

## 11.0 Vegetation

---



Long Beach Riverpark - Los Angeles-South Coast County, Winter

**Long Beach Riverpark**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	9.07	Acre	9.07	395,089.20	0
Parking Lot	3.94	Acre	3.94	171,626.40	0
Apartments Low Rise	152.00	Dwelling Unit	3.79	152,000.00	435
Single Family Housing	74.00	Dwelling Unit	3.54	133,200.00	212

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9	<b>Operational Year</b>	2027		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	549	<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 - Carbon factor adjusted per 2017 Edison Sustainability Report.

Land Use - Project site is 20.34 acres in size.

Construction Phase - Estimated construction schedule.

Grading - 43,468 cy soil import.

Vehicle Trips - Trip rates based on project traffic study.

Woodstoves - No woodstoves.



tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	10.00	169.00
tblConstructionPhase	NumDays	35.00	66.00
tblConstructionPhase	NumDays	370.00	740.00
tblConstructionPhase	NumDays	20.00	152.00
tblConstructionPhase	NumDays	20.00	66.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	15.20	0.00
tblFireplaces	NumberNoFireplace	7.40	0.00
tblFireplaces	NumberWood	7.60	0.00
tblFireplaces	NumberWood	3.70	0.00
tblGrading	MaterialImported	0.00	43,468.00
tblLandUse	LotAcreage	9.50	3.79
tblLandUse	LotAcreage	24.03	3.54
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	7.16	7.23
tblVehicleTrips	ST_TR	9.91	9.34
tblVehicleTrips	SU_TR	6.07	6.21
tblVehicleTrips	SU_TR	8.62	6.21
tblVehicleTrips	WD_TR	6.59	6.74
tblVehicleTrips	WD_TR	9.52	8.97
tblWoodstoves	NumberCatalytic	7.60	0.00
tblWoodstoves	NumberCatalytic	3.70	0.00
tblWoodstoves	NumberNoncatalytic	7.60	0.00

tblWoodstoves	NumberNoncatalytic	3.70	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2022	3.2508	33.1365	20.3083	0.0399	18.2675	1.6142	19.8816	9.9840	1.4850	11.4691	0.0000	3,872.2844	3,872.2844	1.1973	0.0000	3,902.2162
2023	7.2565	71.7394	64.2208	0.2160	18.2675	2.1929	19.5350	9.9840	2.0334	11.1502	0.0000	21,982.5280	21,982.5280	3.2707	0.0000	22,064.2943
2024	4.3390	32.0433	44.7623	0.1154	5.0972	1.1242	6.2214	1.3688	1.0473	2.4161	0.0000	11,512.4460	11,512.4460	1.5787	0.0000	11,551.9126
2025	3.0412	21.3619	28.7677	0.0895	4.9296	0.5678	5.4974	1.3244	0.5337	1.8580	0.0000	9,004.9321	9,004.9321	0.8475	0.0000	9,026.1183
2026	32.8464	22.5205	31.7485	0.0979	5.7679	0.6240	6.3919	1.5467	0.5895	2.1362	0.0000	9,822.5254	9,822.5254	0.8683	0.0000	9,844.2333
<b>Maximum</b>	<b>32.8464</b>	<b>71.7394</b>	<b>64.2208</b>	<b>0.2160</b>	<b>18.2675</b>	<b>2.1929</b>	<b>19.8816</b>	<b>9.9840</b>	<b>2.0334</b>	<b>11.4691</b>	<b>0.0000</b>	<b>21,982.5280</b>	<b>21,982.5280</b>	<b>3.2707</b>	<b>0.0000</b>	<b>22,064.2943</b>

#### Mitigated Construction

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

Year	lb/day										lb/day					
2022	0.5462	2.0705	21.4795	0.0399	6.1902	0.0637	6.2538	3.3454	0.0635	3.4089	0.0000	3,872.2844	3,872.2844	1.1973	0.0000	3,902.2162
2023	3.4513	28.3737	70.3850	0.2160	9.4928	0.2110	9.7037	3.3454	0.2068	3.4089	0.0000	21,982.5280	21,982.5280	3.2707	0.0000	22,064.2943
2024	2.4876	12.5250	48.7257	0.1154	5.0972	0.1206	5.2178	1.3688	0.1175	1.4864	0.0000	11,512.4460	11,512.4460	1.5787	0.0000	11,551.9125
2025	2.0016	11.1270	30.1433	0.0895	4.9296	0.0811	5.0106	1.3244	0.0782	1.4026	0.0000	9,004.9321	9,004.9321	0.8475	0.0000	9,026.1183
2026	31.6657	11.2688	33.1474	0.0979	5.7679	0.0897	5.8576	1.5467	0.0865	1.6332	0.0000	9,822.5254	9,822.5254	0.8683	0.0000	9,844.2333
<b>Maximum</b>	<b>31.6657</b>	<b>28.3737</b>	<b>70.3850</b>	<b>0.2160</b>	<b>9.4928</b>	<b>0.2110</b>	<b>9.7037</b>	<b>3.3454</b>	<b>0.2068</b>	<b>3.4089</b>	<b>0.0000</b>	<b>21,982.5280</b>	<b>21,982.5280</b>	<b>3.2707</b>	<b>0.0000</b>	<b>22,064.2943</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>20.86</b>	<b>63.85</b>	<b>-7.41</b>	<b>0.00</b>	<b>39.85</b>	<b>90.76</b>	<b>44.30</b>	<b>54.85</b>	<b>90.29</b>	<b>60.94</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>

## 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	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Energy	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
Mobile	2.3525	11.2085	30.6965	0.1326	13.0037	0.0987	13.1024	3.4789	0.0917	3.5706		13,557.8613	13,557.8613	0.6112		13,573.1408
<b>Total</b>	<b>9.7980</b>	<b>15.7501</b>	<b>51.1668</b>	<b>0.1612</b>	<b>13.0037</b>	<b>0.5519</b>	<b>13.5556</b>	<b>3.4789</b>	<b>0.5449</b>	<b>4.0238</b>	<b>0.0000</b>	<b>19,115.2838</b>	<b>19,115.2838</b>	<b>0.7492</b>	<b>0.1013</b>	<b>19,164.1926</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	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Energy	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
Mobile	2.3525	11.2085	30.6965	0.1326	13.0037	0.0987	13.1024	3.4789	0.0917	3.5706		13,557.8613	13,557.8613	0.6112		13,573.1408
<b>Total</b>	<b>9.7980</b>	<b>15.7501</b>	<b>51.1668</b>	<b>0.1612</b>	<b>13.0037</b>	<b>0.5519</b>	<b>13.5556</b>	<b>3.4789</b>	<b>0.5449</b>	<b>4.0238</b>	<b>0.0000</b>	<b>19,115.2838</b>	<b>19,115.2838</b>	<b>0.7492</b>	<b>0.1013</b>	<b>19,164.1926</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	Site Clearing	Site Preparation	10/1/2022	10/8/2022	5	5	1
2	Bioremediation	Site Preparation	10/9/2022	6/1/2023	5	169	2
3	Grading	Grading	6/2/2023	9/1/2023	5	66	3
4	Building Construction	Building Construction	8/1/2023	6/1/2026	5	740	5
5	Utility Installation/Streets	Paving	12/1/2023	7/1/2024	5	152	4
6	Architectural Coating	Architectural Coating	3/1/2026	6/1/2026	5	66	6

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 165

Acres of Paving: 13.01

Residential Indoor: 577,530; Residential Outdoor: 192,510; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Clearing	Rubber Tired Dozers	3	8.00	247	0.40
Site Clearing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Bioremediation	Rubber Tired Dozers	3	8.00	247	0.40
Bioremediation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Installation/Streets	Pavers	2	8.00	130	0.42
Utility Installation/Streets	Paving Equipment	2	8.00	132	0.36
Utility Installation/Streets	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	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
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
Site Clearing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Bioremediation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,434.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Installation/Streets	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Building Construction	9	374.00	117.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

### 3.2 Site Clearing - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
<b>Total</b>	<b>0.0806</b>	<b>0.0530</b>	<b>0.6105</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>186.2225</b>	<b>186.2225</b>	<b>5.1300e-003</b>		<b>186.3507</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0380</b>	<b>5.9890</b>	<b>0.0621</b>	<b>6.0510</b>	<b>3.2920</b>	<b>0.0621</b>	<b>3.3541</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	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	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507

<b>Total</b>	<b>0.0806</b>	<b>0.0530</b>	<b>0.6105</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>186.2225</b>	<b>186.2225</b>	<b>5.1300e-003</b>		<b>186.3507</b>
--------------	---------------	---------------	---------------	--------------------	---------------	--------------------	---------------	---------------	--------------------	---------------	--	-----------------	-----------------	--------------------	--	-----------------

### 3.3 Bioremediation - 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	
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922			3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>			<b>3,715.8655</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>						
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	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003			186.3507
<b>Total</b>	<b>0.0806</b>	<b>0.0530</b>	<b>0.6105</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>186.2225</b>	<b>186.2225</b>	<b>5.1300e-003</b>			<b>186.3507</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0380</b>	<b>5.9890</b>	<b>0.0621</b>	<b>6.0510</b>	<b>3.2920</b>	<b>0.0621</b>	<b>3.3541</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</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	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	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
<b>Total</b>	<b>0.0806</b>	<b>0.0530</b>	<b>0.6105</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.5700e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.4500e-003</b>	<b>0.0548</b>		<b>186.2225</b>	<b>186.2225</b>	<b>5.1300e-003</b>		<b>186.3507</b>

**3.3 Bioremediation - 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					

Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.2660</b>	<b>19.3323</b>	<b>9.9307</b>	<b>1.1647</b>	<b>11.0954</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0759	0.0480	0.5612	1.8000e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		179.4097	179.4097	4.6200e-003		179.5251
<b>Total</b>	<b>0.0759</b>	<b>0.0480</b>	<b>0.5612</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>179.4097</b>	<b>179.4097</b>	<b>4.6200e-003</b>		<b>179.5251</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					5.9890	0.0000	5.9890	3.2920	0.0000	3.2920			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>5.9890</b>	<b>0.0621</b>	<b>6.0510</b>	<b>3.2920</b>	<b>0.0621</b>	<b>3.3541</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</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	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	0.0759	0.0480	0.5612	1.8000e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		179.4097	179.4097	4.6200e-003		179.5251
<b>Total</b>	<b>0.0759</b>	<b>0.0480</b>	<b>0.5612</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>179.4097</b>	<b>179.4097</b>	<b>4.6200e-003</b>		<b>179.5251</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7478	0.0000	8.7478	3.6078	0.0000	3.6078			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.7478</b>	<b>1.4245</b>	<b>10.1723</b>	<b>3.6078</b>	<b>1.3105</b>	<b>4.9183</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4392	13.6299	4.8789	0.0596	1.4398	0.0252	1.4650	0.3947	0.0241	0.4188		6,484.8880	6,484.8880	0.4460		6,496.0377
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	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
<b>Total</b>	<b>0.5236</b>	<b>13.6832</b>	<b>5.5025</b>	<b>0.0616</b>	<b>1.6633</b>	<b>0.0269</b>	<b>1.6902</b>	<b>0.4540</b>	<b>0.0257</b>	<b>0.4796</b>		<b>6,684.2321</b>	<b>6,684.2321</b>	<b>0.4511</b>		<b>6,695.5100</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					2.8999	0.0000	2.8999	1.1960	0.0000	1.1960			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>2.8999</b>	<b>0.1015</b>	<b>3.0014</b>	<b>1.1960</b>	<b>0.1015</b>	<b>1.2975</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</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	lb/day										lb/day					
Hauling	0.4392	13.6299	4.8789	0.0596	1.4398	0.0252	1.4650	0.3947	0.0241	0.4188		6,484.8880	6,484.8880	0.4460		6,496.0377

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0844	0.0533	0.6235	2.0000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5700e-003	0.0609		199.3441	199.3441	5.1300e-003		199.4724
<b>Total</b>	<b>0.5236</b>	<b>13.6832</b>	<b>5.5025</b>	<b>0.0616</b>	<b>1.6633</b>	<b>0.0269</b>	<b>1.6902</b>	<b>0.4540</b>	<b>0.0257</b>	<b>0.4796</b>		<b>6,684.2321</b>	<b>6,684.2321</b>	<b>0.4511</b>		<b>6,695.5100</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2604	8.1594	2.7631	0.0281	0.7491	9.9600e-003	0.7590	0.2157	9.5200e-003	0.2252		3,003.8733	3,003.8733	0.1715		3,008.1614
Worker	1.5780	0.9963	11.6601	0.0374	4.1804	0.0318	4.2122	1.1087	0.0293	1.1380		3,727.7349	3,727.7349	0.0959		3,730.1333
<b>Total</b>	<b>1.8383</b>	<b>9.1558</b>	<b>14.4232</b>	<b>0.0655</b>	<b>4.9295</b>	<b>0.0418</b>	<b>4.9713</b>	<b>1.3244</b>	<b>0.0388</b>	<b>1.3631</b>		<b>6,731.6083</b>	<b>6,731.6083</b>	<b>0.2675</b>		<b>6,738.2946</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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0269</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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	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	0.2604	8.1594	2.7631	0.0281	0.7491	9.9600e-003	0.7590	0.2157	9.5200e-003	0.2252		3,003.8733	3,003.8733	0.1715		3,008.1614
Worker	1.5780	0.9963	11.6601	0.0374	4.1804	0.0318	4.2122	1.1087	0.0293	1.1380		3,727.7349	3,727.7349	0.0959		3,730.1333
<b>Total</b>	<b>1.8383</b>	<b>9.1558</b>	<b>14.4232</b>	<b>0.0655</b>	<b>4.9295</b>	<b>0.0418</b>	<b>4.9713</b>	<b>1.3244</b>	<b>0.0388</b>	<b>1.3631</b>		<b>6,731.6083</b>	<b>6,731.6083</b>	<b>0.2675</b>		<b>6,738.2946</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2540	8.1302	2.6793	0.0279	0.7491	9.7900e-003	0.7589	0.2157	9.3500e-003	0.2250		2,992.2232	2,992.2232	0.1689		2,996.4462
Worker	1.4974	0.9084	10.8551	0.0362	4.1804	0.0313	4.2118	1.1087	0.0289	1.1375		3,612.1061	3,612.1061	0.0879		3,614.3036
<b>Total</b>	<b>1.7513</b>	<b>9.0385</b>	<b>13.5344</b>	<b>0.0642</b>	<b>4.9295</b>	<b>0.0411</b>	<b>4.9707</b>	<b>1.3244</b>	<b>0.0382</b>	<b>1.3626</b>		<b>6,604.3293</b>	<b>6,604.3293</b>	<b>0.2568</b>		<b>6,610.7499</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
-------	--------	--------	---------	--------	--	--------	--------	--	--------	--------	--------	------------	------------	--------	--	------------

**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	0.2540	8.1302	2.6793	0.0279	0.7491	9.7900e-003	0.7589	0.2157	9.3500e-003	0.2250		2,992.2232	2,992.2232	0.1689		2,996.4462
Worker	1.4974	0.9084	10.8551	0.0362	4.1804	0.0313	4.2118	1.1087	0.0289	1.1375		3,612.1061	3,612.1061	0.0879		3,614.3036
<b>Total</b>	<b>1.7513</b>	<b>9.0385</b>	<b>13.5344</b>	<b>0.0642</b>	<b>4.9295</b>	<b>0.0411</b>	<b>4.9707</b>	<b>1.3244</b>	<b>0.0382</b>	<b>1.3626</b>		<b>6,604.3293</b>	<b>6,604.3293</b>	<b>0.2568</b>		<b>6,610.7499</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.2475	8.0613	2.6109	0.0278	0.7491	9.6000e-003	0.7587	0.2157	9.1700e-003	0.2249		2,976.1787	2,976.1787	0.1664			2,980.3383
Worker	1.4263	0.8309	10.0721	0.0348	4.1804	0.0307	4.2111	1.1087	0.0283	1.1369		3,472.2790	3,472.2790	0.0801			3,474.2819
<b>Total</b>	<b>1.6738</b>	<b>8.8922</b>	<b>12.6830</b>	<b>0.0626</b>	<b>4.9296</b>	<b>0.0403</b>	<b>4.9698</b>	<b>1.3244</b>	<b>0.0374</b>	<b>1.3618</b>		<b>6,448.4577</b>	<b>6,448.4577</b>	<b>0.2465</b>			<b>6,454.6202</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.4744	2,556.4744	0.6010			2,571.4981
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>			<b>2,571.4981</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	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	0.0000	0.0000
Vendor	0.2475	8.0613	2.6109	0.0278	0.7491	9.6000e-003	0.7587	0.2157	9.1700e-003	0.2249	2,976.1787	2,976.1787	0.1664		2,980.3383	
Worker	1.4263	0.8309	10.0721	0.0348	4.1804	0.0307	4.2111	1.1087	0.0283	1.1369	3,472.2790	3,472.2790	0.0801		3,474.2819	
<b>Total</b>	<b>1.6738</b>	<b>8.8922</b>	<b>12.6830</b>	<b>0.0626</b>	<b>4.9296</b>	<b>0.0403</b>	<b>4.9698</b>	<b>1.3244</b>	<b>0.0374</b>	<b>1.3618</b>	<b>6,448.4577</b>	<b>6,448.4577</b>	<b>0.2465</b>		<b>6,454.6202</b>	

### 3.5 Building Construction - 2026

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2418	7.9864	2.5581	0.0276	0.7491	9.3800e-003	0.7585	0.2157	8.9600e-003	0.2247	2,960.7861	2,960.7861	0.1639			2,964.8827

Worker	1.3656	0.7654	9.4096	0.0336	4.1804	0.0297	4.2101	1.1087	0.0273	1.1360		3,351.6871	3,351.6871	0.0734		3,353.5227
<b>Total</b>	<b>1.6074</b>	<b>8.7518</b>	<b>11.9677</b>	<b>0.0612</b>	<b>4.9296</b>	<b>0.0390</b>	<b>4.9686</b>	<b>1.3244</b>	<b>0.0362</b>	<b>1.3606</b>		<b>6,312.4732</b>	<b>6,312.4732</b>	<b>0.2373</b>		<b>6,318.4055</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	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</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	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	0.2418	7.9864	2.5581	0.0276	0.7491	9.3800e-003	0.7585	0.2157	8.9600e-003	0.2247		2,960.7861	2,960.7861	0.1639		2,964.8827
Worker	1.3656	0.7654	9.4096	0.0336	4.1804	0.0297	4.2101	1.1087	0.0273	1.1360		3,351.6871	3,351.6871	0.0734		3,353.5227
<b>Total</b>	<b>1.6074</b>	<b>8.7518</b>	<b>11.9677</b>	<b>0.0612</b>	<b>4.9296</b>	<b>0.0390</b>	<b>4.9686</b>	<b>1.3244</b>	<b>0.0362</b>	<b>1.3606</b>		<b>6,312.4732</b>	<b>6,312.4732</b>	<b>0.2373</b>		<b>6,318.4055</b>

**3.6 Utility Installation/Streets - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1007</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
<b>Total</b>	<b>0.0633</b>	<b>0.0400</b>	<b>0.4677</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>149.5081</b>	<b>149.5081</b>	<b>3.8500e-003</b>		<b>149.6043</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	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3484</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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	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	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
<b>Total</b>	<b>0.0633</b>	<b>0.0400</b>	<b>0.4677</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>149.5081</b>	<b>149.5081</b>	<b>3.8500e-003</b>		<b>149.6043</b>

### 3.6 Utility Installation/Streets - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

<b>Total</b>	<b>1.0561</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>
--------------	---------------	---------------	----------------	---------------	--	---------------	---------------	--	---------------	---------------	--	-------------------	-------------------	---------------	--	-------------------

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
<b>Total</b>	<b>0.0601</b>	<b>0.0364</b>	<b>0.4354</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.2600e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1600e-003</b>	<b>0.0456</b>		<b>144.8706</b>	<b>144.8706</b>	<b>3.5300e-003</b>		<b>144.9587</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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3484</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</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	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	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
<b>Total</b>	<b>0.0601</b>	<b>0.0364</b>	<b>0.4354</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.2600e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1600e-003</b>	<b>0.0456</b>		<b>144.8706</b>	<b>144.8706</b>	<b>3.5300e-003</b>		<b>144.9587</b>

**3.7 Architectural Coating - 2026**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.4268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>29.5977</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2739	0.1535	1.8870	6.7400e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		672.1298	672.1298	0.0147		672.4979
<b>Total</b>	<b>0.2739</b>	<b>0.1535</b>	<b>1.8870</b>	<b>6.7400e-003</b>	<b>0.8383</b>	<b>5.9500e-003</b>	<b>0.8443</b>	<b>0.2223</b>	<b>5.4700e-003</b>	<b>0.2278</b>		<b>672.1298</b>	<b>672.1298</b>	<b>0.0147</b>		<b>672.4979</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	29.4268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>29.4566</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	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	0.2739	0.1535	1.8870	6.7400e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		672.1298	672.1298	0.0147		672.4979

Total	0.2739	0.1535	1.8870	6.7400e-003	0.8383	5.9500e-003	0.8443	0.2223	5.4700e-003	0.2278		672.1298	672.1298	0.0147		672.4979
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	--------	--	----------

## 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	2.3525	11.2085	30.6965	0.1326	13.0037	0.0987	13.1024	3.4789	0.0917	3.5706		13,557.8613	13,557.8613	0.6112		13,573.1408
Unmitigated	2.3525	11.2085	30.6965	0.1326	13.0037	0.0987	13.1024	3.4789	0.0917	3.5706		13,557.8613	13,557.8613	0.6112		13,573.1408

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,024.48	1,098.96	943.92	3,497,836	3,497,836
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	663.78	691.16	459.54	2,181,900	2,181,900
Total	1,688.26	1,790.12	1,403.46	5,679,736	5,679,736

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Other Non-Asphalt Surfaces	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Parking Lot	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827
Single Family Housing	0.543646	0.044284	0.209381	0.116714	0.014227	0.006316	0.021040	0.033117	0.002601	0.001862	0.005277	0.000709	0.000827

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982
NaturalGas Unmitigated	0.1335	1.1404	0.4853	7.2800e-003		0.0922	0.0922		0.0922	0.0922		1,455.8468	1,455.8468	0.0279	0.0267	1,464.4982

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6804.51	0.0734	0.6271	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507		800.5302	800.5302	0.0153	0.0147	805.2874
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5570.19	0.0601	0.5133	0.2184	3.2800e-003		0.0415	0.0415		0.0415	0.0415		655.3166	655.3166	0.0126	0.0120	659.2108
<b>Total</b>		<b>0.1335</b>	<b>1.1404</b>	<b>0.4853</b>	<b>7.2800e-003</b>		<b>0.0922</b>	<b>0.0922</b>		<b>0.0922</b>	<b>0.0922</b>		<b>1,455.8468</b>	<b>1,455.8468</b>	<b>0.0279</b>	<b>0.0267</b>	<b>1,464.4982</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6.80451	0.0734	0.6271	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507		800.5302	800.5302	0.0153	0.0147	805.2874
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.57019	0.0601	0.5133	0.2184	3.2800e-003		0.0415	0.0415		0.0415	0.0415		655.3166	655.3166	0.0126	0.0120	659.2108
<b>Total</b>		<b>0.1335</b>	<b>1.1404</b>	<b>0.4853</b>	<b>7.2800e-003</b>		<b>0.0922</b>	<b>0.0922</b>		<b>0.0922</b>	<b>0.0922</b>		<b>1,455.8468</b>	<b>1,455.8468</b>	<b>0.0279</b>	<b>0.0267</b>	<b>1,464.4982</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537
Unmitigated	7.3121	3.4012	19.9850	0.0213		0.3610	0.3610		0.3610	0.3610	0.0000	4,101.5757	4,101.5757	0.1101	0.0746	4,126.5537

## 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	0.5321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3729	3.1866	1.3560	0.0203		0.2576	0.2576		0.2576	0.2576	0.0000	4,068.0000	4,068.0000	0.0780	0.0746	4,092.1741
Landscaping	0.5594	0.2146	18.6290	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5757	33.5757	0.0322		34.3796

<b>Total</b>	<b>7.3121</b>	<b>3.4012</b>	<b>19.9850</b>	<b>0.0213</b>		<b>0.3610</b>	<b>0.3610</b>		<b>0.3610</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,101.5757</b>	<b>4,101.5757</b>	<b>0.1101</b>	<b>0.0746</b>	<b>4,126.5537</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	0.5321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3729	3.1866	1.3560	0.0203		0.2576	0.2576		0.2576	0.2576	0.0000	4,068.0000	4,068.0000	0.0780	0.0746	4,092.1741
Landscaping	0.5594	0.2146	18.6290	9.8000e-004		0.1034	0.1034		0.1034	0.1034		33.5757	33.5757	0.0322		34.3796
<b>Total</b>	<b>7.3121</b>	<b>3.4012</b>	<b>19.9850</b>	<b>0.0213</b>		<b>0.3610</b>	<b>0.3610</b>		<b>0.3610</b>	<b>0.3610</b>	<b>0.0000</b>	<b>4,101.5757</b>	<b>4,101.5757</b>	<b>0.1101</b>	<b>0.0746</b>	<b>4,126.5537</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**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 Stationary Equipment

---

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

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

## 11.0 Vegetation

---





**IV.B.2**

**Health Risk Assessment Report**



# **River Park Residential Project**

## **Health Risk Assessment of Diesel Emissions**

**PREPARED FOR:**

City of Long Beach  
333 West Ocean Boulevard, 5<sup>th</sup> Floor  
Long Beach, CA 90802

**PREPARED BY:**

**Westlake Village Office**  
920 Hampshire Road, Suite A5  
Westlake Village, CA 91361



**Los Angeles Office**  
706 S. Hill Street, 11th Floor  
Los Angeles, CA 90014

**April 2021**

## TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
Introduction .....	1
Project Description and Location .....	1
Health Risk Assessment .....	2
Recommendations .....	7
Conclusion.....	9

### Attachments

- A Methodology
- B AERMOD Output Sheets
- C EMFAC Worksheets
- D AERMOD Output (24-hour)
- E AERMOD Output (Annual)

### List of Tables

<u>Table</u>	<u>Page</u>
1 California Ambient Air Quality Standards .....	4
2 Long Beach Air Quality Monitoring Summary .....	5
3 Air Quality Significance Thresholds.....	6
4 Estimated Inhalation Cancer Risk and Chronic Hazards.....	7
5 Reduced Estimated Inhalation Cancer Risk.....	8

## **INTRODUCTION**

This health risk assessment (HRA) has been prepared for the River Park Residential Project (Project) to assess potential health risk impacts on future residents from exposure to diesel emissions generated by vehicles on Interstate 710 (I-710) freeway, Interstate 405 (I-405) freeway, and Wardlow Road. Based on the California Air Resources Board's (CARB) *Air Quality and Land Use Handbook: A Community Perspective*, siting sensitive land uses such as residential uses close to freeways and high-traffic roads can increase the potential for adverse health effects. The Project site is currently vacant and proposes to include includes 226 detached and attached single-family units on the southern 15 acres of the 20-acre Project Site and 5 acres of Public Open Space.

## **PROJECT DESCRIPTION AND LOCATION**

The Project site is located within the neighborhood of Wrigley Heights near the western edge of the City. The surrounding of the Project Site encompasses Interstate 405 (I-405) to the north, Golden Avenue to the east, Wardlow Road to the south, and Los Angeles River to the west. Two parks- Baker Street Park and Wrigley Heights Dog Park are adjacent on the east side of the Project Site.

The Project Site is located in an urbanized area surrounded by residential development and parks to the east and south of the project. Existing recreational trails are available along the Los Angeles River channel. Past the Los Angeles River is Interstate 710 (I-710) and more residential development. There is a vacant site north of I-405.

The Project includes 74 detached single-family condominium units, 99 attached townhouse units, and 53 attached condominium units, totally 226 single-family units. Primary access to the residential development connects to Wardlow Road south of the Project Site. Proceeding north from the Wardlow Road access the interior roadway continues west as it travels past the first set of residential structures south of the roadway. The residential structures adjacent to Wardlow Road are single-family condominiums with floor level garages and 2<sup>nd</sup> and 3<sup>rd</sup> story living quarters. These condominiums are also the only structures which are 3 stories in height. A total of 53 condominium structures are proposed adjacent to Wardlow Road at the south end of the residential development area.

As roadway then loops north and travels adjacent to 25 detached single-family units on the west side of the development abutting the Los Angeles River. These detached single-family units are 2 stories tall and would surround the perimeter of the development, 7 units to the north abutting the existing Baker Street and 28 units to the east adjacent to Golden Avenue. The remaining 21 detached single-family condominium units are located towards the center of the housing development along with 99 attached 2

story townhouse units. A 54-foot biofiltration basin is proposed between the detached single-family units and Golden Avenue.

The residential development will also include a 1 story clubhouse and pool towards the southern portion of the development, north of the 3-story condominium units. The Project would set aside approximately 4 acres for streets and parking areas within the complex, including 452 off-street garage parking spaces, and 59 guest parking spaces, 3 of which would be Americans With Disability's (ADA) parking spaces

The Project site is within the South Coast Air Basin (Basin), which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD) and includes the nondesert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County. The Basin is a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean to the west and high mountains around the perimeter. The topography and climate of southern California combine to make the Basin an area of high air pollution potential. Atmospheric conditions such as wind speed, wind direction, and air temperature gradients interact with the physical features of the landscape to determine the movement and dispersal of air pollutants, including toxic air contaminants (TACs). The general region lies in the semipermanent high- to light-average wind speeds. The usually mild climatological pattern is disrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds. During the summer months, a warm air mass frequently descends over the cool, moist marine layer produced by the interaction between the ocean's surface and the lowest layer of the atmosphere. The warm upper layer forms a cap over the cool marine layer and inhibits the pollutant in the marine layer from dispersing upward. Light winds during the summer further limit ventilation. Furthermore, sunlight triggers the photochemical reactions that produce ozone.

## **HEALTH RISK ASSESSMENT**

### **Introduction**

The primary TAC of concern from diesel exhaust is diesel particulate matter (DPM). In 1998, CARB identified DPM from diesel-powered engines as a TAC based on its potential to result in an increased cancer risk, as well as other noncancer adverse health effects, due to prolonged exposure. Some short-term (acute) effects of DPM exposure include eye, nose, throat, and lung irritation; coughs; headaches; light-headedness; and nausea. Long-term (chronic) effects include aggravation of existing respiratory and cardiovascular disease; alteration in the body's defense systems against foreign materials; damage to lung tissue and reduced lung function; carcinogenesis; premature birth rates; and premature death.

TAC generators located within the Basin are associated with diesel-fueled vehicles producing DPM, as well as with specific types of facilities, such as dry cleaners, gas stations, distribution centers, and ports. The

CARB has made specific recommendations with respect to siting new sensitive uses near existing TAC-emitting facilities. Among other specific recommendations, CARB suggests siting sensitive receptors (such as residences) no less than 500 feet from freeways or major roadways.

This HRA evaluates the potential for increased health risks to future residents of the proposed Project resulting from exposure to diesel exhaust emissions (a TAC) generated by vehicles on I-710 Freeway, which is located approximately 640 feet west of the Project site, vehicles on I-405 freeway which is located approximately 620 feet north of the Project site, and Wardlow Road which is located approximately 75 feet south of the Project site. As the Project is not located within the buffer distance of any other major TAC-emitting facilities, this HRA is limited to the impacts from DPM associated with the I-710, I-405 freeways and Wardlow Road.

Average daily traffic along the segment of I-710 and I-405 is approximately 184,000 and 296,000 vehicles, respectively. Average daily traffic along Wardlow Road is approximately 35,001 vehicles. As diesel-powered trucks are the primary contributors of DPM on roadways and freeways, this HRA analysis evaluates the cancer risk and noncancer health effects of the future residents' increased exposure to DPM associated with vehicles traveling along I-710, I-405 and Wardlow Road. Adverse health risks are discussed in terms of noncancer and cancer risks. Noncancer health risks can be measured quantitatively, with the risk designated as a hazard quotient (HQ). The HQ is the ratio of the calculated concentration to a threshold concentration that has been identified as having some level of adverse health effect.

Cancer risk has no set thresholds because carcinogens are considered to be nonthreshold pollutants. This means that for any nonzero concentration of a carcinogen, there is an increased risk of developing cancer. Therefore, significance exposure to a carcinogen is evaluated based on the increase in risk. The increased risk is determined by multiplying a calculated dose with the cancer potency factor and then by 1 million to express risk in the common term of the risk per million people. An HRA evaluates the increased cancer risk from the continuous exposure to a pollutant over a lifetime.

Inhalable particulate matter equal to or less than 10 microns in diameter (PM<sub>10</sub>) from diesel exhaust is used as a surrogate for evaluating the cancer and chronic noncancer (HQ) risk from DPM exposure. The health risks for the proposed Project are evaluated by first estimating the DPM emissions produced by diesel vehicles that are currently traveling on the segment of I-710, I-405 and Wardlow Road that passes by the Project site. Dispersion modeling is then used to convert those emissions to ambient (existing background) concentrations. Finally, the ambient concentrations are used to determine whether the future residents of the proposed Project would be exposed to an increased potential for health risks from existing conditions at the Project site.

## Criteria Pollutant Exposures

The State of California has promulgated strict ambient air quality standards for various pollutants. These standards were established to safeguard the public's health and welfare, with specific emphasis on protecting those individuals susceptible to respiratory distress, such as asthmatics, the young, the elderly, and those with existing conditions that may be affected by increased pollutant concentrations. However, recent research has shown that unhealthful respiratory responses occur with exposures to pollutants at levels that only marginally exceed clean air standards. **Table 2: California Ambient Air Quality Standards** presents the California Ambient Air Quality Standards (CAAQS) for the criteria pollutants considered in the analysis.

**Table 1**  
**California Ambient Air Quality Standards**

Pollutant	Standard	Health Effects
Particulates (PM10)	>50 µg/m <sup>3</sup> (24 hour average) > 20 µg/m <sup>3</sup> (Annual)	<ol style="list-style-type: none"> <li>1. Excess deaths from short-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory disease.</li> <li>2. Excess seasonal declines in pulmonary function, especially in children.</li> </ol>
Particulates (PM2.5)	> 12 µg/m <sup>3</sup> (Annual)	<ol style="list-style-type: none"> <li>1. Excess deaths and illness from long-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory and cardio pulmonary disease.</li> </ol>
Carbon Monoxide (CO)	> 9.0 ppm (8 hour average) > 20.0 ppm (1 hour average)	<ol style="list-style-type: none"> <li>1. Aggravation of angina pectoris and other aspects of coronary heart disease.</li> <li>2. Decreased exercise tolerance in persons with peripheral vascular disease and lung disease.</li> <li>3. Impairment of central nervous system functions.</li> <li>4. Possible increased risk to fetuses.</li> </ol>
Nitrogen Dioxide (NO2)	> 0.18 ppm (1 hour average)	<ol style="list-style-type: none"> <li>1. Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups.</li> <li>2. Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structure changes</li> </ol>

*Source: California Code of Regulations, Title 17, Section 70200.  
Notes: ppm: parts per million; µg/m<sup>3</sup>: micrograms per cubic meter.*

Pollutant emissions are considered to have a significant effect on the environment if they result in concentrations that create either a violation of an ambient air quality standard, contribute to an existing air quality violation or expose sensitive receptors to substantive pollutant concentrations. Should ambient air quality already exceed existing standards, the SCAQMD has established significance criteria for selected compounds to account for the continued degradation of local air quality. Background concentrations are based on the highest observed value for the most recent 3-year period. Annual exposures were not considered because event scenarios were based on single-day activities; it would be speculative to forecast concentration estimates without information and schedules to reflect reasonable assumptions associated with seasonal event activities.

**Table 2: Long Beach Air Quality Monitoring Summary** shows the pollutant concentrations collected at the Long Beach monitoring station for the last three years of available data. **Table 3: Air Quality Significance Thresholds** outlines the relevant significance thresholds considered to affect local air quality.

**Table 2**  
**Long Beach Air Quality Monitoring Summary**

Pollutant/Averaging Time	Year			Maximum
	2017	2018	2019	
Particulates (PM10)				
24-hour	79.0	83.0	155.4	155.4
# of days above 24-hour standard	10	4	4	4
Particulates (PM2.5)				
24-hour	N/A	N/A	N/A	N/A
# of days above 24-hour standard	N/A	N/A	N/A	N/A
Carbon monoxide (CO)				
1-hour	N/A	N/A	N/A	N/A
Nitrogen dioxide (NO2)				
1-hour	89	85	71	89
# of days above 24-hour standard	0	0	0	0

Source: California Air Resources Board, US Environmental Protection Agency.

Note: PM10 and PM2.5 concentrations are expressed in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). All others are expressed in parts per billion (ppb).



**Table 3**  
**Air Quality Significance Thresholds**

Pollutant	Averaging Time	Pollutant Concentration
Particulates (PM10) Particulates (PM2.5)	24 hours	2.5 µg/m <sup>3</sup> (operation)
Particulates (PM10)	Annual	1.0 µg/m <sup>3</sup>
Carbon monoxide (CO)	1 hour 8 hours	Area is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standards of 20 ppm (1-hour) and 9 ppm (8-hour).
Nitrogen dioxide (NO <sub>2</sub> )	1 hour	Area is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standard of 0.18 ppm.

*Source: Ventura County Air Pollution District.*

*Notes: ppm = parts per million; µg/m<sup>3</sup> = micrograms per cubic meter.*

## Significance Criteria

Neither the State nor the SCAQMD has developed a quantitative threshold for the purposes of evaluating the health impacts on residential developments from exposure to TAC emissions associated with a nearby freeway or high-volume roadway. Currently, the SCAQMD has only developed significance thresholds that apply to single stationary and mobile sources of TAC emissions, such as projects involving truck stops or warehouses. However, in absence of a threshold specific to assessing health impacts from a freeway, the SCAQMD's stationary source TAC thresholds of 10 in 1 million for cancer risk and 1 for hazard index would serve as the most appropriate thresholds for use in this HRA analysis.

## Freeway Exposure Health Risks and Hazards

**Table 4: Estimated Inhalation Cancer Risk and Chronic Hazards** shows the estimated range of excess cancer risk and chronic hazard indices for future residents of the proposed Project. The building façades facing towards Wardlow Road would be nearest to traffic volumes and would be exposed to higher amounts of DPM emissions than those located further away from the road; the cancer risk and chronic hazard indices for the on-site receptors would gradually decrease as their distance from the freeway increases across the Project site. As shown in **Table 1**, the maximally exposed individual receptor (MEIR) is represented by the proposed use located closest from the nearest travel lane.

As shown in **Table 4**, the maximum cancer risk at the Project site from DPM emissions generated by diesel-vehicle travel along the I-710, I-405 and Wardlow Road for residents and workers are 1.2 in one hundred

thousand and 8.4 in ten million, respectively. The cancer risk for residents at the site would exceed SCAQMD’s suggested significance criteria of 10 per one million. However, the maximum noncancer hazard indices for the Project’s residents and workers are 0.01 for the MEIR receptors, below the significance criterion of 1.

**Table 4**  
**Estimated Inhalation Cancer Risk and Chronic Hazards**

Receptor	Cancer Risk	Chronic Noncancer Hazard Index
Resident MEIR	1.2E-05	0.01
Worker MEIR	8.4E-07	0.01

*Note: See Attachment B for calculations.*

## RECOMMENDATIONS

As stated previously, with respect to cancer risk, any nonzero concentration of a carcinogen represents an increased risk of developing cancer. It is important to note, the proposed features of the building include internal (no window units) filtration and climate control systems. In the event exterior cooling systems are utilized, in order to minimize adverse health effects associated with exposure of future Project sensitive receptors to DPM concentrations from the freeway and major roadway, it is recommended that the Project incorporate the following design features to reduce potential cancer risk:

- Locate outdoor areas, such as balconies and courtyards, as far from the freeway and roadway segment as possible;
- Plant vegetation between residential receptors and the freeway;
- Install, operate, and maintain an HVAC system that uses high-efficiency filters of Minimum Efficiency Reporting Value (MERV) 14 or higher for the residential units (suggested use of MERV 16);
- Locate the air intakes for the uses as far from the freeway as possible; and
- Provide a disclosure letter to all new residents that discusses the potential risk from living within close proximity of the freeway and roadway segment, and points out that opening windows reduces the effectiveness of implemented reduction measures and increases individuals’ exposure and hence risk.

High-efficiency (MERV 14–16 or higher) pleated particle filters for uses located near busy roadways would generally be considered the most effective approach to filtration because these filters can remove the very small particles emitted by motor vehicles without emitting ozone, formaldehyde, or other harmful byproducts. Such high-efficiency filtration can reduce indoor PM2.5 and ultrafine particle levels by up to

90 percent (MERV 16) relative to incoming outdoor levels when doors and windows are kept mostly closed. However, only those particles in the airstream passing through the filter are removed. Consequently, because most occupants of the proposed Project are anticipated to open their windows or doors at least part of the day, any pollutant reduction attained through the use of high-efficiency filters would be compromised based on the amount of time doors and windows are left open. **Table 5: Reduced Estimated Inhalation Cancer Risk** identifies the reduction in risk associated with incorporation of MERV 14 through MERV 16 filters when windows are closed 25 percent, 50 percent, 75 percent, and 100 percent of the time. As shown in **Table 5**, the implementation of these measures with the windows open or closed will further reduce risk exposure at the MEIR and would not exceed the SCAQMD’s suggested significance criteria of 10 per one million.

**Table 5**  
**Reduced Estimated Inhalation Cancer Risk**

<b>Receptor</b>	<b>MERV 14</b>	<b>MERV 15</b>	<b>MERV 16</b>
<b><i>Windows closed 25 percent of the time</i></b>			
Resident MEIR	9.87E-06	9.76E-06	9.64E-06
<b><i>Windows closed 50 percent of the time</i></b>			
Resident MEIR	8.06E-06	7.83E-06	7.61E-06
<b><i>Windows closed 75 percent of the time</i></b>			
Resident MEIR	6.25E-06	5.91E-06	5.57E-06
<b><i>Windows closed 100 percent of the time</i></b>			
Resident MEIR	4.44E-06	3.99E-06	3.53E-06

*Note: See Attachment B for calculations.*

Limiting particulate infiltration will be accomplished by installing and maintain air filtration systems with efficiencies of MERV 14 or better as defined by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers Standard 52.2. These filters are rated to remove a portion of the ultrafine and submicron particles, such as diesel particulate matter emitted from mobile sources. MERV 14 or better air filtration systems are capable of removing 75 percent or more of particles between 0.3 and 1.0 microns, and 90 percent or more of particles between 1.0 and 10.0 microns.

With installation of MERV 14 air filtration systems, PM10 concentrations for the maximum exposed residential units would be 0.03 µg/m<sup>3</sup> and 0.02 µg/m<sup>3</sup> for the 24-hour and annual averaging times, respectively. These values would not exceed the 24-hour and annual significance thresholds of 2.5 µg/m<sup>3</sup> and 1.0 µg/m<sup>3</sup>, respectively.

## CONCLUSION

The estimated maximum cancer risk at the Project site from DPM emissions generated by diesel-vehicle travel along the I-710 and I-405 freeway and Wardlow Road for residents and workers are 1.2 in one hundred thousand and 8.4 in ten million, respectively. The cancer risk for residents at the site would exceed the SCAQMD's suggested significance criteria of 10 per one million. The maximum noncancer hazard indices for the Project's MEIR would be 0.01, which is also below the significance criterion of 1.

To further reduce the exposure of the Project's on-site residents to DPM emissions, it is recommended that high-efficiency filters (MERV 14 or higher) be installed; communal outdoor areas and air intakes be located as far as from the freeway as possible; and a letter identifying the increased risk from DPM exposure be provided to all future residents. As shown in **Table 5**, the implementation of these measures will further reduce risk exposure at the MEIR and would not exceed the SCAQMD's suggested significance criteria of 10 per one million.



## HRA METHODOLOGY

The methodologies and assumptions used in this health risk assessment (HRA) are consistent with the guidance recommended by the SCAQMD's *Supplemental Guidelines for Preparing Risk Assessments for Air Toxics "Hot Spots" Information and Assessment Act (ARB2588)*<sup>1</sup> and the California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) Air Toxic Hot Spots Program Risk Assessment Guidelines.<sup>2</sup> The methodology used in this assessment uses a dose-response assessment to characterize risk from cancer due to inhaled toxic air contaminants (TACs) and the assessment of acute and chronic noncancer from diesel particulate matter (DPM). Based on the OEHHA guidance, the evaluation of potential health risks uses the following standard four-step risk assessment process: (1) Hazard Identification; (2) Exposure Assessment; (3) Dose-Response Assessment; and (4) Risk Characterization.

### Hazard Identification

The hazard identification process is undertaken to determine what TACs are potentially present in the assessment areas, and if so, identified what the pollutants of concern are along with their potential adverse health effects. In this HRA, the primary hazard is DPM emissions from vehicular sources (specifically diesel-powered trucks) along Interstate 710 (I-710) freeway corridor south of the Project site, Interstate 405 (I-405) freeway corridor north of the Project site, and Wardlow Road adjacent to the south of the Project site. The California Air Resources Board (CARB) identified DPM as a TAC with a potential cancer and chronic noncancer effects.

DPM historically has been used a surrogate measure of exposure for whole diesel exhaust emissions. Diesel exhaust is a complex mixture of thousands of gases and fine particles (commonly known as soot). Diesel exhaust particles and gases are suspended in the air due to thermal buoyancy and the small size of the particles. The composition of diesel exhaust varies depending on engine type, operating conditions, fuel composition, lubricating oil, presence of an emission control system. One of the main characteristics of diesel exhaust is the release of particles at a relative rate approximately 20 times greater than from gasoline-fueled vehicles, on an equivalent fuel basis. Diesel particulates are mainly aggregates of spherical carbon particles coated with inorganic and organic substances. The inorganic fraction primarily consists of small carbon (elemental carbon) particles ranging from 0.01 to 0.08 micron in diameter. The organic fraction consists of soluble organic compounds.

---

1 SCAQMD, *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act*, July 2018.

2 OEHHA, *Air Toxic Hot Spots Program Risk Assessment Guidelines*, February 2015.

## **Exposure Assessment**

The degree of the Project's exposure to DPM from existing vehicle traffic on I-710, I-405 and Wardlow Road was evaluated under the exposure assessment portion of the HRA. This assessment starts with the quantification of DPM emissions, followed by dispersion modeling and an estimation of long-term exposure levels. The amount of DPM emissions generated by vehicle traffic on I-710, I-405 and Wardlow Road was determined using PM10 from diesel exhaust as a surrogate.

### ***Detailed Modeling***

Air dispersion modeling was conducted using the American Meteorological Society/Environmental Protection Agency Regulator Model (AERMOD v. 9.9.5). This model is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the release heights of the emission sources (i.e., complex terrain). AERMOD is the U.S. EPA's regulatory dispersion model specified in the Guideline for Air Quality Methods.<sup>3</sup> AERMOD is recommended for use by the South Coast Air Quality Management District (SCAQMD), which has established its own modeling guidance for the model.<sup>4</sup>

### ***Emission Sources***

Within AERMOD, diesel vehicle traffic was modeled as a line source comprised of separate volume sources along the stretch of I-710, I-405 and Wardlow Road. Diesel exhaust emissions were modeling using a release height of 7.41 feet (2.26 meters), which is the weighted average height of an exhaust stack above ground level for the combined diesel car and truck traffic along this stretch of freeway. The plume height and width used for each volume sources along the I-710 was 14.83 feet and 80.9 feet (4.52 and 24.65 meters), respectively. The plume height and width used for each volume sources along the I-405 was 14.83 feet and 86.94 feet (4.52 and 26.5 meters), respectively. The plume height and width used for each volume sources along Wardlow Road was 14.83 feet and 76.2 feet (4.52 and 23.21 meters), respectively. Based on guidance, the plume height was determined by multiplying the average stack height by a factor of 2, while the plume width was determined by adding 19.69 feet (6 meters) to the freeway width.

### ***Emission Rates***

The quantification of diesel exhaust emissions requires a diesel exhaust emission rate (in grams per second) from trucks. To estimate this emission rate, emission factors (in grams per mile) for the various

---

3 U.S. EPA Code of Federal Regulations, Title 40, Part 51, Appendix W

4 SCAQMD Modeling Guidance for AERMOD, <http://www.aqmd.gov/home/library/air-quality-data-studies/meteorological-data/modeling-guidance>.

vehicle classes of diesel-powered trucks and cars were first obtained from the EMFAC2021 web database.<sup>5</sup> Pollutant emission rates were identified for total organic gases (TOG), diesel particulates, particulates (PM10 and PM2.5), carbon monoxide (CO) and nitrogen oxide (NOx) compounds. Using these emission factors and the available average daily vehicle traffic counts published by the California Department of Transportation (Caltrans) along with the distance of the I-710, I-405 and Wardlow Road corridor to be modeled, the total grams of diesel exhaust emissions that would be generated along the segment to be modeled were obtained. In turn, the total emissions amount was then converted into an exhaust emission rate in grams per second.

A conservative route speed of 65 miles per hour (mph) was assumed for the freeway corridors. A route speed of 40 mph was assumed for the Wardlow Road corridor. For congested or minimum speed conditions, 10 and 5 miles per hour were identified and used for the north and southbound routes, respectively. Ramp volumes were assumed to have a uniform distribution and were averaged to produce an hourly traffic profile.

For particulates (PM10 and PM2.5), emissions were quantified through the reentrainment of paved roadway dust. The predictive emission equation developed by the U.S. EPA (AP-42, Section 13.2.1) was used to generate particulate source strength. To account for the mass rate emissions entrained from the roadway surface, the contribution from exhaust, break and tire wear were added to the AP-42 emission factor equation.

Within AERMOD, the emission rate used for dispersion modeling assumed a rate of 1.0 gram per second for the entire line source. The use of a unitary emission rate (1.0 gram per second) allows for the AERMOD results to be factored based on actual emission rates that are calculated and outlined in the aforementioned steps. For example, assume that an emission rate of 1 gram per second results in a dispersion modeling concentration of  $0.5 \mu\text{g}/\text{m}^3$ . Using these results, an actual emission rate of 5 grams per second would result in a concentration of  $2.5 \mu\text{g}/\text{m}^3$  (5 grams per second/gram per second x  $0.5 \mu\text{g}/\text{m}^3$  equals  $2.5 \mu\text{g}/\text{m}^3$ ). This approach is useful as any future changes that are necessary in the calculation of emission rates would not require the re-running of AERMOD in order to obtain the actual TAC concentration.

## ***Meteorological Data***

In order to run AERMOD, the following hourly surface meteorological data are required: wind speed, wind direction, ambient temperature, and opaque cloud cover. These meteorological variables are used to estimate air dispersion of pollutants in the atmosphere. Wind speed determines how rapidly pollutants

---

5 EMFAC 2021 is the California Air Resources Boards' tool for estimating emissions from on-road vehicles. The 2021 version was released January of 2021.



are diluted and influences the rise of the emission plume in the air, thus affecting downwind pollutant concentrations. Wind direction determines where pollutants will be transported. The opaque cloud cover and upper air surrounding data are used in calculations to determine other important dispersion parameters. These include atmospheric stability (a measure of turbulence and the rate at which pollutants disperse laterally and vertically) and mixing height (the vertical depth of the atmosphere within which dispersion occurs). The greater the mixing height is, the larger the volume of atmosphere is available to dilute the pollutant concentration.

The dispersion modeling for the Project utilized preprocessed meteorological data from the Long Beach Airport Meteorological Station, which is the station nearest to the Project site obtained from SCAQMD.<sup>6</sup> The meteorological data was collected for the years between January 2012 and December 2016.

### ***Sensitive Receptors***

In order to determine the DPM concentrations at the Project site, discrete receptors were placed inside the boundary of the Project site at areas where future residences would be located. Based on SCAQMD's AERMOD modeling guidance, all receptors should be set to a height of 0 feet (0 meters), so that ground-level concentrations are analyzed. In order to fulfill SCAQMD's requirements and accurately characterize the risk throughout the Project site, a 32.81 foot by 32.81 foot (10 meter by 10 meter) receptor grid was placed over the Project site (including site boundaries). The receptor grid was then converted to discrete receptors to maintain spacing and provide for ease in determining the maximum exposed individual (MEI).

### ***Terrain Data***

The modeling analysis also included terrain data to accurately assess impacts in three dimensions. The terrain data used for the analysis was from the digital elevation model data for the Pasadena and Mount Wilson 7.5-minute quadrangles obtained through the AERMOD program.

### ***Urban/Rural***

The AERMOD model requires that the user specify whether a site should be modeled as either urban or rural. The urban option allows the user to incorporate the effects of increased surface heating from an urban area on pollutant dispersion under stable atmospheric conditions. This surface heating typically causes better dispersion, which results in lower pollutant concentrations.

Based on SCAQMD's AERMOD modeling guidance, all air quality impact analyses in the South Coast Air Basin should be executed using the urban modeling option. In addition, all sources should be modeled

---

6 SCAQMD Meteorological Data for AERMOD, [www.aqmd.gov/home/library/air-quality-data-studies/meteorological-data/data-for-aermod](http://www.aqmd.gov/home/library/air-quality-data-studies/meteorological-data/data-for-aermod)

with urban effects using the population of the County where the Project is located. As SCAQMD provides the various County populations within AQMD jurisdiction, the population of 466,776 for Long Beach was used in the AERMOD run.

### ***Dose-Response Assessment***

The dose-response assessment in the process of characterizing the relationship between exposure to diesel exhaust and the incidence of an adverse health effect in the exposed populations.

The estimation of potential inhalation cancer risk posed by exposure to DPM requires a cancer potency factor. Cancer potency factors are expressed as the upper bound probability of developing cancer assuming continuous lifetime exposure to diesel exhaust at a dose of one milligram per kilogram of body weight, and are expressed in units of inverse dose as a potency slope (i.e., [mg/kg/day]<sup>-1</sup>). A cancer potency factor when multiplied by the dose of a carcinogen gives the associated lifetime cancer risk. The cancer potency factor for DPM is 1.1 (mg/kg/day)<sup>-1</sup>.<sup>7</sup> The estimation of potential inhalation chronic noncancer effects posed by exposure to DPM requires a chronic reference exposure level (REL). A chronic REL is a concentration level (that is expressed in units of micrograms per cubic meter [µg/m<sup>3</sup>] for inhalation exposures), at or below which no adverse health effects are anticipated following long-term exposure. The chronic REL for DPM is 5 µg/m<sup>3</sup>.<sup>8</sup> The chronic hazard index target organ for DPM is the respiratory system.

### ***Risk Characterization***

Risk characterization combines the maximum annual average ground-level DPM concentration from the exposure assessment, cancer potency factor, and chronic REL from the dose-response analysis to estimate the potential inhalation cancer risk and chronic hazard index (HI) from the exposure to DPM emissions.

For the Project's health risk evaluation, the maximum exposed individual (MEI) was assumed to reside at the same receptor location for 70 years. This is a conservative assumption because, typically speaking, people no longer spend their entire life in one location.

The equation used to calculate the potential excess lifetime cancer risk for the residential inhalation pathway is as follows:

$$Dose = (C_{air} \times DBR \times A \times EF \times ED \times CF) / AT$$

Where:

---

7 California Environmental Protection Agency Office of Environmental Health Hazard Assessment, *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*, February 2015.

8 California Environmental Protection Agency Office of Environmental Health Hazard Assessment, *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*, February 2015.

Dose = Dose through inhalation (milligrams per kilogram-day [mg/kg/day])

$C_{air}$  = Concentration of DPM in air (micrograms per cubic meter [ $\mu\text{g}/\text{m}^3$ ] – from AERMOD)

DBR = Daily breathing rate, or the average amount of air inhaled daily (liters per kilograms body weight-day [L/kg body weight-day]) = 302 L/kg

A = Inhalation absorption factor (unitless), the potential for absorption into the body through the lungs = 1.

EF = Exposure frequency (days per year [days/yr]) = 350 days/year.

ED = Exposure duration (years[yr]) = 30 years

CF = Composite conversion factor (micrograms per cubic meters – milligram per 1,000 liter [ $\text{mg}/\mu\text{g} \times \text{m}^3/\text{L}$ ]) =  $1 \times 10^{-6}$

AT = Averaging time period over which exposure is averaged (number of days over the total exposure period. For lifetime cancer risk, the averaging time is 70 regardless of the exposure duration.) = 25,550 days

The following equation was used to estimate the excess cancer risk for a resident at the Project based upon the calculated dosage:

$$\text{Cancer Risk} = \text{Dose} \times \text{CPF}$$

Where:

Cancer Risk = Risk (potential chances per million)

Dose = Dose from inhalation (mg/kg-day)

CPF = Chemical or compound cancer potency factor = ( $1 \text{ mg}/\text{kg}\text{-day}^{-1}$ )

Finally, the potential noncancer health risk for chronic exposure to DPM was evaluated by calculating the Hazard Quotient (HQ) using the following equation:

$$\text{HQ} = C_{airi}/\text{REL}$$

Where:

HQ = Hazard quotient for DPM (unitless)

$C_{airi}$  = Increase in average annual PM10 concentration ( $\mu\text{g}/\text{m}^3$ ) from air dispersion model at the MEI

REL = Reference exposure level for DPM ( $5 \mu\text{g}/\text{m}^3$ )







Table with columns for Agency, Year, Measure, and 50 numerical values. The table lists various CAIRP and other measures across multiple years (2025) for various agencies like Los Angeles, Los Angeles, Los Angeles, etc. Each row contains a measure ID and 50 numerical values representing different metrics.















Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Region	Calendar Y	Vehicle Ca	Model Yea	Fuel	Total VMT	%VMT	CVMT	EVMT	NOx_RUNI	NOx_RUNEX	PM2.5_RL	PM2.5_RL	PM10_RU	CO2_RUN	CO2_RUNI	CH4_RUNI	CH4_RUNI	N2O_RUN	N2O_RUN	ROG_RUN	ROG_RUN	TOG_RUN	TOG_RUN	CO_RUNE	CO_RUNE	SOx_RUNI	SOx_RUNI	NH3_RUN	NH3_RUN	PM10_PM	PM10_PM	PM2.5_PA	PM2.5_PMBW	RUNEX_AVE
Los Angeles	2025	LDA	Aggregate	5 Gasoline	176931	0.26687	176931	0	0.01352	0.124907061	0.00162	0.44759	0.00177	0.44939	130.446	0.33746	0.00309	0.03836	0.00155	0.07117	0.01158	0.27048	0.0169	0.12903	0.27811	0.20575	0.00129	0.42432	0.00695	0.32033	0.00116	0.25983	0.00041	0.25983
Los Angeles	2025	LDT1	Aggregate	5 Gasoline	15437.6	0.02329	15437.6	0	0.00508	0.046905358	0.00022	0.06064	0.00024	0.06088	13.5755	0.03512	0.00086	0.01068	0.00035	0.01608	0.00381	0.08889	0.00555	0.0424	0.06017	0.04451	0.00013	0.04416	0.00065	0.02996	0.00014	0.03235	5.1E-05	0.03235
Los Angeles	2025	LDT2	Aggregate	5 Gasoline	90968	0.13721	90968	0	0.01228	0.113498676	0.00086	0.23566	0.00093	0.23661	82.2049	0.21266	0.00203	0.02523	0.00106	0.04857	0.00788	0.18407	0.0115	0.08781	0.16733	0.12379	0.00081	0.2674	0.0038	0.17536	0.00081	0.1821	0.00028	0.1821
Los Angeles	2025	LHD1	Aggregate	5 Gasoline	1253.32	0.00189	1253.32	0	0.00028	0.002572406	5.1E-06	0.00139	5.5E-06	0.0014	2.10195	0.00544	3.5E-05	0.00044	1.6E-05	0.00075	0.00017	0.00396	0.00025	0.00189	0.00349	0.00258	2.1E-05	0.00684	6.2E-05	0.00286	0.00011	0.02412	3.8E-05	0.02412
Los Angeles	2025	LHD2	Aggregate	5 Gasoline	178.871	0.00027	178.871	0	4.4E-05	0.000410075	6.8E-07	0.00019	7.4E-07	0.00019	0.34391	0.00089	4.1E-06	5.1E-05	2.7E-06	0.00012	1.9E-05	0.00044	2.7E-05	0.00021	0.00038	0.00028	3.4E-06	0.00112	8.9E-06	0.00041	1.8E-05	0.00402	6.3E-06	0.00402
Los Angeles	2025	MCV	Aggregate	5 Gasoline	1365.28	0.00206	1365.28	0	0.00106	0.009785024	1.7E-05	0.00474	1.8E-05	0.00469	0.70372	0.00182	0.00136	0.01684	7.7E-05	0.00353	0.00857	0.20018	0.01049	0.08012	0.04667	0.03452	7E-06	0.00229	1.3E-05	0.00062	1.8E-05	0.00404	6.3E-06	0.00404
Los Angeles	2025	MDV	Aggregate	5 Gasoline	50153	0.07565	50153	0	0.01057	0.097674505	0.00047	0.13086	0.00052	0.13139	55.4838	0.14353	0.0016	0.01988	0.00079	0.03637	0.00665	0.15522	0.0097	0.07403	0.11339	0.08389	0.00055	0.18048	0.00207	0.0955	0.00046	0.10284	0.00016	0.10284
Los Angeles	2025	MH	Aggregate	5 Gasoline	84.5604	0.00013	84.5604	0	5E-05	0.000460403	7.5E-07	0.00021	8.1E-07	0.00021	0.39292	0.00102	6.2E-06	7.8E-05	3.4E-06	0.00016	2.6E-05	0.0006	3.8E-05	0.00029	0.00032	0.00024	3.9E-06	0.00128	4.2E-06	0.00019	5.7E-06	0.00128	2E-06	0.00128
Los Angeles	2025	OBUS	Aggregate	5 Gasoline	247.477	0.00037	247.477	0	0.00021	0.001917878	1.5E-06	0.00041	1.6E-06	0.00041	1.07407	0.00278	1.9E-05	0.00023	1E-05	0.00047	9.1E-05	0.00212	0.00013	0.00101	0.00072	0.00053	1.1E-05	0.00349	1.2E-05	0.00057	1.7E-05	0.00376	5.9E-06	0.00376
Los Angeles	2025	SBUS	Aggregate	5 Gasoline	1845.47	0.00278	1845.47	0	0.00016	0.014770678	9.8E-06	0.00271	1.1E-05	0.00272	3.84317	0.00994	0.00012	0.00147	8.8E-05	0.00404	0.00059	0.01375	0.00086	0.00656	0.00423	0.00313	3.8E-05	0.0125	9.2E-05	0.00442	0.00013	0.028	4.4E-05	0.028
Los Angeles	2025	T6T5	Aggregate	5 Gasoline	446.964	0.00067	446.964	0	0.00032	0.002988906	3.1E-06	0.00086	3.4E-06	0.00087	1.90224	0.00492	3.3E-05	0.0004	1.7E-05	0.00078	0.00016	0.00363	0.00023	0.00173	0.00122	0.00091	1.9E-05	0.00619	2.2E-05	0.00102	3E-05	0.00678	1.1E-05	0.00678
Los Angeles	2025	TT15	Aggregate	5 Gasoline	0.30074	4.5E-07	0.30074	0	2.8E-06	2.58915E-05	2.8E-09	7.8E-07	3.1E-09	7.8E-07	0.00164	4.2E-06	2.8E-07	3.5E-06	9.5E-08	4.4E-06	1.5E-06	3.4E-05	2.1E-06	1.6E-05	2.9E-05	2.1E-05	1.6E-08	5.3E-06	1.5E-08	6.8E-07	5.1E-08	1.1E-05	1.8E-08	1.1E-05
Los Angeles	2025	UBUS	Aggregate	5 Gasoline	295.766	0.00045	295.766	0	0.0001	0.000951403	2.3E-06	0.00063	2.5E-06	0.00064	1.36626	0.00353	7.4E-06	9.2E-05	1E-05	0.00046	2.4E-05	0.00056	3.5E-05	0.00027	0.00014	0.0001	1.4E-05	0.00444	1.5E-05	0.00068	3.6E-05	0.00802	1.3E-05	0.00802

Composite	0.057457856	0.16312	0.16377	0.13096	0.01549	0.0288	0.11171	0.05326	0.07936	0.16467
-----------	-------------	---------	---------	---------	---------	--------	---------	---------	---------	---------











Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Region	Calendar Y	Vehicle CA	Model Year	Speed	Fuel	Total VMT	%VMT	CVMT	EVMT	NOK_RUN	NOR_RUN	PM2.5_RU	PM2.5_RU	PM10_RU	PM10_RU	CO2_RUN	CO2_RUN	CH4_RUN	CH4_RUN	N2O_RUN	N2O_RUN	ROG_RUN	ROG_RUN	TOG_RUN	TOG_RUN	CO_RUNE	CO_RUNE	SOX_RUNE	SOX_RUNE	NH3_RUN	NH3_RUN	PM10_PM	PM10_PM	PM2.5_P	PM2.5_P	PM2.5_PMBW	RUNEX_AVE	
Los Angeles	2025	All Other E	Aggregate	10	Diesel	577.503	0.00022	577.503	0	0.00309	0.00724	9.4E-05	0.00699	9.8E-05	0.00675	1.2741	0.00079	2.2E-05	0.00014	0.0002	0.00329	0.00047	0.003	0.00053	0.00155	0.00078	0.00016	1.2E-05	0.00084	0.00013	0.00119	3.9E-05	0.00139	1.4E-05	0.00139			
Los Angeles	2025	LDA	Aggregate	10	Diesel	1867.26	0.00071	1867.26	0	0.00051	0.00012	0.00013	0.00097	0.00014	0.00943	1.0313	0.00065	2.1E-05	0.00013	0.00016	0.00268	0.00046	0.00293	0.00052	0.00152	0.00084	0.00138	9.8E-06	0.00068	6.4E-06	5.9E-05	1.5E-05	0.00055	5.4E-06	0.00055			
Los Angeles	2025	LDT1	Aggregate	10	Diesel	16.7513	6.4E-06	16.7513	0	2.1E-05	4.9E-05	1.2E-05	0.00093	1.3E-05	0.0009	0.01623	1E-05	7.5E-07	4.7E-06	2.6E-06	4.2E-05	1.6E-05	0.0001	1.8E-05	5.3E-05	6.4E-05	1.3E-05	1.5E-07	1.1E-05	5.7E-08	5.3E-07	2.2E-07	8E-06	7.8E-08	8E-06			
Los Angeles	2025	LDT2	Aggregate	10	Diesel	1782.2	0.00098	1782.2	0	0.00026	0.00061	2.1E-05	0.00154	2.2E-05	0.00148	1.26628	0.00079	1.8E-05	0.00011	0.0002	0.00327	0.00039	0.00247	0.00044	0.00128	0.00371	0.00075	1.2E-05	0.00083	6.1E-06	7E-05	0.0007	6.8E-06	0.00007				
Los Angeles	2025	LHD1	Aggregate	10	Diesel	5652.9	0.00215	5652.9	0	0.00795	0.01964	0.00031	0.02318	0.00033	0.02327	6.2487	0.0039	7.1E-05	0.00048	0.00098	0.01616	0.00153	0.0098	0.00174	0.00507	0.00447	0.0009	5.9E-05	0.00413	0.00118	0.00094	0.00049	0.00049	0.01732	0.00017	0.01732		
Los Angeles	2025	LHD2	Aggregate	10	Diesel	2516.37	0.00096	2516.37	0	0.00345	0.00081	0.00014	0.01039	0.00015	0.01003	3.28462	0.00205	3.2E-05	0.0002	0.00052	0.00849	0.00068	0.00438	0.00078	0.00227	0.00196	0.0004	3.1E-05	0.00216	0.00053	0.00049	0.00025	0.00899	8.8E-05	0.00899			
Los Angeles	2025	MHV	Aggregate	10	Diesel	3404.6	0.00129	3404.6	0	0.00051	0.00012	6.6E-05	0.00493	6.9E-05	0.00476	3.07654	0.00192	2.5E-05	0.00016	0.00048	0.00796	0.00053	0.00342	0.00061	0.00177	0.01055	0.00213	2.9E-05	0.00203	1.2E-05	0.00011	3.9E-05	0.00138	1.4E-05	0.00138			
Los Angeles	2025	MND	Aggregate	10	Diesel	195.846	7.4E-05	195.846	0	0.00227	0.00531	3.3E-05	0.02047	3.5E-05	0.02038	0.42326	0.00026	6.8E-06	4.3E-05	6.7E-05	0.00109	0.00015	0.00094	0.00017	0.00049	0.00037	7.5E-05	4E-06	0.00028	3.5E-05	0.00043	1.3E-05	0.00047	4.6E-06	0.00047			
Los Angeles	2025	Motor Ctr	Aggregate	10	Diesel	424.628	0.00016	424.628	0	0.00355	0.00832	4E-06	0.00043	4.2E-06	0.00029	1.40659	0.00088	1.6E-06	1E-05	0.00022	0.00364	3.5E-05	0.00022	3.9E-05	0.00011	0.00037	7.5E-05	1.3E-05	0.00093	0.0001	0.00095	6.4E-05	0.00229	2.2E-05	0.00229			
Los Angeles	2025	SBUS	Aggregate	10	Diesel	1313.45	0.0005	1313.45	0	0.02395	0.05618	0.00019	0.01392	0.0002	0.01344	3.07656	0.00192	4.9E-05	0.0003	0.00048	0.00796	0.00105	0.00671	0.00119	0.00348	0.00015	0.00053	0.00031	2.9E-05	0.00022	0.00012	0.00113	8.9E-05	0.00317	3.1E-05	0.00317		
Los Angeles	2025	TC CARP C	Aggregate	10	Diesel	4.53869	1.7E-06	4.53869	0	8.1E-06	1.9E-05	6E-08	4.5E-06	6.3E-08	4.3E-06	0.00972	6.1E-06	1.5E-08	9.6E-08	2.5E-06	3.3E-07	2.1E-06	3.7E-07	1.1E-06	1.1E-06	2.1E-07	9.2E-08	6.4E-06	1.1E-06	1E-05	3.1E-07	1.1E-05	1.1E-07	1.1E-05				
Los Angeles	2025	TC CARP C	Aggregate	10	Diesel	6.23649	2.4E-06	6.23649	0	1.1E-05	2.6E-05	3.4E-08	2.6E-06	3.6E-08	2.5E-06	0.0134	8.4E-06	1.3E-08	7.9E-08	2.1E-06	3.5E-05	2.7E-07	1.7E-06	3.1E-07	1.3E-06	2.6E-07	1.3E-07	8.8E-06	1.5E-06	1.4E-05	4.2E-07	1.5E-05	1.5E-07	1.5E-05				
Los Angeles	2025	TC CARP C	Aggregate	10	Diesel	16.1869	6.1E-06	16.1869	0	2.5E-05	6E-05	1.6E-07	1.2E-05	1.7E-07	1.2E-05	0.03399	2.1E-05	4.3E-08	2.7E-07	5.4E-06	8.8E-05	9.2E-07	5.9E-06	1E-06	3.1E-06	3.2E-06	6.6E-07	3.2E-07	2.2E-05	3.9E-06	3.6E-05	1.1E-06	3.9E-05	3.8E-07	3.9E-05			
Los Angeles	2025	TC CARP C	Aggregate	10	Diesel	102.51	3.9E-05	102.51	0	0.00019	0.00044	3.6E-07	2.7E-05	3.8E-07	2.6E-05	0.20428	0.00013	1.7E-07	1.1E-06	3.2E-05	0.00053	3.7E-06	2.4E-05	4.2E-06	1.2E-05	2.2E-05	4.4E-06	1.9E-06	0.00013	2.5E-05	0.00023	6.9E-06	0.00025	2.4E-06	0.00025			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	669.11	0.00025	669.11	0	0.00255	0.00997	6.9E-05	0.0051	7.2E-05	0.00493	1.46757	0.00092	1.3E-05	0.00023	0.00079	0.00268	0.0018	0.00032	0.00093	0.00047	0.00093	9.6E-05	1.4E-05	0.00097	0.00015	0.00142	4.5E-06	0.00162	1.6E-05	0.00162			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	695.679	0.00026	695.679	0	0.00169	0.00396	2.1E-05	0.01156	2.2E-05	0.01151	1.52334	0.00095	4.3E-06	2.7E-05	0.00024	0.00394	9.3E-05	0.0006	0.00061	0.00031	0.00024	4.9E-05	1.4E-05	0.001	0.00017	0.00154	4.7E-05	0.00168	1.7E-05	0.00168			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	2127.38	0.00081	2127.38	0	0.00566	0.01329	8.2E-05	0.06068	8.5E-05	0.05087	4.65892	0.00021	1.7E-05	0.0001	0.00073	0.01205	0.00036	0.00229	0.00041	0.00119	0.00086	0.00017	4.4E-05	0.00307	0.00051	0.00468	0.00014	0.00514	5E-05	0.00514			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	854.841	0.00032	854.841	0	0.00256	0.00587	4.1E-06	0.00031	4.3E-06	0.0003	1.89373	0.00018	2.1E-06	1.3E-05	0.0003	0.00049	4.5E-05	0.00029	5.1E-05	0.00015	0.0003	6E-05	1.8E-05	0.000125	0.00021	0.00191	5.8E-05	0.00206	2E-05	0.00206			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	944.127	0.00036	944.127	0	0.00332	0.00778	8.2E-05	0.0061	8.6E-05	0.00589	2.09084	0.0013	1.5E-05	9.4E-05	0.00033	0.000541	0.00032	0.00208	0.00037	0.00108	0.00059	0.00012	2E-05	0.00138	0.00022	0.00203	6.4E-05	0.00228	2.2E-05	0.00228			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	2208.23	0.00084	2208.23	0	0.00495	0.01161	3.4E-05	0.02053	3.5E-05	0.02044	4.86949	0.00304	8.6E-06	5.4E-05	0.00077	0.01259	0.00018	0.00118	0.00021	0.00061	0.00065	0.00013	4.6E-05	0.0032	0.00053	0.00492	0.00015	0.00533	5.2E-05	0.00533			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	1955.85	0.00074	1955.85	0	0.00527	0.01235	8.1E-05	0.06064	8.5E-05	0.05083	4.31407	0.00269	1.6E-05	0.0001	0.00068	0.01116	0.00035	0.00223	0.0004	0.00116	0.00081	0.00016	4.1E-05	0.00284	0.00047	0.0043	0.00013	0.00472	4.5E-05	0.00472			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	980.815	0.00037	980.815	0	0.00271	0.00637	5.3E-06	0.0004	5.6E-06	0.00038	2.11569	0.00135	2.5E-06	1.6E-05	0.00034	0.00558	5.4E-05	0.00035	6.2E-05	0.00019	0.00033	6.7E-05	2E-05	0.00142	0.00024	0.0022	6.6E-05	0.00237	2.3E-05	0.00237			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	32.9332	1.3E-05	32.9332	0	7.1E-05	0.00017	5E-07	3.7E-05	5.2E-07	3.6E-05	0.07216	4.5E-05	1.2E-07	7.5E-07	1.1E-05	0.00019	2.6E-06	1.6E-05	2.9E-06	8.5E-06	9.2E-06	1.9E-06	6.8E-07	4.7E-05	7.9E-06	7.3E-05	2.2E-06	8E-05	7.8E-07	8E-05			
Los Angeles	2025	TC Instate	Aggregate	10	Diesel	476.798	0.00038	476.798	0	0.00143	0.00336	2.4E-06	0.01008	1.2E-06	0.00018	0.20205	0.00064	1.2E-06	7.8E-06	0.00016	0.00264	2.7E-05	0.00017	3E-05	8.9E-05	9.7E-06	3.5E-05	9.7E-06	0.00067	0.00012	0.00107	3.2E-06	0.00115	1.1E-05	0.00115			
Los Angeles	2025	TC OOS Cl	Aggregate	10	Diesel	2.6226	1E-06	2.6226	0	5.1E-06	1.2E-05	5.9E-08	4.4E-06	6.2E-08	4.2E-06	0.00554	3.5E-06	1.3E-08	8.3E-08	8.7E-07	1.4E-05	2.8E-07	1.8E-06	3.2E-07	7.3E-07	1.5E-07	5.2E-08	3.6E-06	6.3E-07	5.8E-06	1.8E-07	6.3E-06	6.2E-08	6.3E-06				
Los Angeles	2025	TC OOS Cl	Aggregate	10	Diesel	3.59773	1.4E-06	3.59773	0	6.5E-06	1.5E-05	2.7E-08	2E-06	2.8E-08	1.9E-06	0.00763	4.8E-06	8.6E-09	5.4E-08	1.2E-06	2.1E-07	6.2E-07	7.9E-07	1.6E-07	6.2E-07	1.6E-07	7.2E-08	5E-06	8.7E-07	8E-06	2.4E-07	8.5E-08	8.7E-06					
Los Angeles	2025	TC OOS Cl	Aggregate	10	Diesel	9.40097	3.6E-06	9.40097	0																													

Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Region	Calendar	Vehicle Category	Model Year	Speed	Fuel	Total VMT	%VMT	CVMT	EVMT	NOx_RUN	NOx_RUN	PM2.5_RU	PM2.5_LU	PM10_RU	PM10_LU	CO2_RUN	CO2_RUN	CH4_RUN	CH4_RUN	N2O_RUN	N2O_RUN	ROG_RUN	ROG_RUN	TOG_RUN	TOG_RUN	CO_RUNE	CO_RUNE	SOX_RUN	SOX_RUN	NH3_RUN	NH3_RUN	PM10_P	PM10_P	PM2.5_P	PM2.5_P	PMBW_RUNEX_AVE			
Los Angeles	2025	All Other	E Aggregate	1486.81	Diesel	0.00026	1486.81			0.00565	0.00733	0.00016	0.00801	0.00017	0.00774	2.59194	0.00093	2.9E-05	0.00015	0.00041	0.00439	0.00063	0.00273	0.00072	0.000152	0.00136	0.00016	2.5E-05	0.00094	0.00033	0.00142	0.0001	0.00137	3.5E-05	0.00137				
Los Angeles	2025	All Other	F Aggregate	367.023	Natural Gas	0.63E-05	367.023			0.00015	0.00019	8.6E-07	4.3E-05	9.4E-07	4.3E-05	0.02819	0.00022	0.00061	0.00034	0.00138	8.8E-06	3.8E-05	0.00003	0.00032	0.00029	0.00026	0	0	0.00403	0.00184	2.5E-05	0.00034	8.7E-06	0.00034					
Los Angeles	2025	LDA	Aggregate	2217382	Gasoline	0.38097	2217382			0.13041	0.16927	0.00853	0.42199	0.00928	0.42447	10.68107	0.38647	0.01627	0.08072	0.015	0.16119	0.06125	0.26531	0.08938	0.18913	2.83494	0.32577	0.01069	0.40784	0.08709	0.37333	0.02142	0.29124	0.8705	0.29124				
Los Angeles	2025	LDA	Aggregate	4056.11	Diesel	0.0007	4056.11			0.00099	0.00128	0.00021	0.0105	0.00022	0.01015	1.89474	0.00066	2.6E-05	0.00013	0.00029	0.00313	0.00057	0.00246	0.00065	0.00137	0.0077	0.00088	1.8E-05	0.00067	1.4E-05	5.9E-05	4E-05	0.00054	1.4E-05	0.00054				
Los Angeles	2025	LDA	Aggregate	851833	Gasoline	0.14635	851833			0.00009	0.00012	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Los Angeles	2025	LDA	Aggregate	349311	Plug-In Hy	0.06002	37635	0.11676	0.00005	0.00065	0.00015	0.00072	0.00016	0.00075	0.00016	0.00075	0.00076	8.9E-05	0.00044	6.1E-05	0.00065	0.00034	0.00046	0.00059	0.00016	0.00059	0.00016	0.00059	0.00016	0.00059	0.00043	0.0002	0.00745	0.00164	0.00074	0.0013	0.01765	0.00045	0.01765
Los Angeles	2025	LD1	Aggregate	193471	Gasoline	0.03324	193471			0.04671	0.00603	0.0012	0.05981	0.0013	0.05944	112.588	0.04025	0.00475	0.02355	0.00326	0.03508	0.00112	0.01214	0.00848	0.03082	0.65251	1.58928	0.06771	0.00111	0.04247	0.00814	0.03491	0.0027	0.03669	0.00094	0.03669			
Los Angeles	2025	LD1	Aggregate	36.3876	Diesel	6.3E-06	36.3876			0.048E-05	6.2E-05	2E-05	0.00094	2.1E-05	0.00094	0.02923	1E-05	1.2E-06	0.046E-06	5E-05	2.5E-05	0.0011	2.9E-05	0.0011	2.9E-05	0.0011	2.9E-05	0.0011	2.9E-05	0.0011	1.1E-05	1.2E-07	1.1E-05	1.2E-07	7.9E-06	1.2E-07	7.9E-06		
Los Angeles	2025	LD1	Aggregate	4122.13	Electricity	0.00071	4122.13	0.4122	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Los Angeles	2025	LD1	Aggregate	2826.77	Plug-In Hy	0.00049	256.557	2570.21	3.4E-06	4.5E-06	6.9E-07	3.4E-05	7.5E-07	3.4E-05	0.00135	4.8E-05	6E-07	3E-06	4.1E-07	4.4E-06	2.4E-06	1E-05	3.4E-06	7.3E-06	0.00026	3E-05	1.3E-06	5.1E-05	1.2E-05	5.1E-05	1.5E-05	0.00014	3.7E-06	0.00014					
Los Angeles	2025	LD2	Aggregate	1140051	Gasoline	0.19587	1140051			0.11688	0.15171	0.0045	0.22257	0.0049	0.22387	681.802	0.24374	0.01082	0.05369	0.01015	0.19097	0.04223	0.18294	0.06163	0.13041	1.69522	1.1948	0.00674	0.25721	0.04768	0.20438	0.01519	0.20654	0.00532	0.20654				
Los Angeles	2025	LD2	Aggregate	3871.35	Diesel	0.00067	3871.35			0.00039	0.00051	3.7E-05	0.00185	3.9E-05	0.00179	2.28075	0.00082	1.9E-05	9.5E-05	0.00036	0.00041	0.00179	0.00047	0.00099	0.00039	0.00046	2.2E-05	0	0	0	0	0	0	0	0	0	0	0	
Los Angeles	2025	LD2	Aggregate	45774	Electricity	0.00796	45774			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Los Angeles	2025	LD2	Aggregate	6216.35	Plug-In Hy	0.01093	6216.35	57403.3	8.3E-05	0.0011	1.9E-05	0.00096	2.1E-05	0.00097	3.26011	0.00117	1.5E-05	7.2E-05	1E-05	0.00011	5.7E-05	0.00025	8.3E-05	0.00118	0.00637	0.00073	3.2E-05	0.00123	0.00029	0.00123	0.00029	0.00123	0.00024	0.00321	8.3E-05	0.00321			
Los Angeles	2025	LHD1	Aggregate	51716.7	Gasoline	0.00889	51716.7			0.00943	0.01224	0.00011	0.05751	0.00013	0.05707	62.5612	0.02337	0.0007	0.00346	0.00054	0.00582	0.00334	0.01448	0.00488	0.01032	0.08778	0.10009	0.00062	0.0236	0.00256	0.01988	0.00445	0.06047	0.00155	0.06047				
Los Angeles	2025	LHD1	Aggregate	1725.11	Diesel	0.00296	1725.11			0.02228	0.02892	0.00079	0.03894	0.00082	0.03765	16.2977	0.00583	0.00018	0.00091	0.00257	0.0276	0.00394	0.01708	0.00449	0.0095	0.01101	0.00127	0.00015	0.05898	0.0036	0.01544	0.00418	0.02017	0.00052	0.02017				
Los Angeles	2025	LHD1	Aggregate	878.281	Electricity	0.00015	878.281			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Los Angeles	2025	LHD2	Aggregate	7380.92	Gasoline	0.01127	7380.92			0.00145	0.00188	1.5E-05	0.00175	1.6E-05	0.00175	10.1977	0.00365	8E-05	0.00039	8.6E-05	0.00093	0.00036	0.00154	0.00052	0.0011	0.01006	0.00116	0.0001	0.00385	0.00037	0.00157	0.00074	0.01007	0.00026	0.01007				
Los Angeles	2025	LHD2	Aggregate	7679.3	Diesel	0.00137	7679.3			0.00953	0.01238	0.00035	0.00154	0.00037	0.00165	0.00087	0.00035	0.00041	0.00136	0.00043	0.00078	0.00171	0.00023	0.00029	0.00049	0.00056	8.2E-05	0.00311	0.00163	0.00699	0.00077	0.01048	0.00026	0.01048					
Los Angeles	2025	LHD2	Aggregate	186.99	Electricity	3.2E-05	186.99			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Los Angeles	2025	MCY	Aggregate	17110.3	Gasoline	0.00294	17110.3			0.01135	0.01474	9.5E-05	0.00472	0.0001	0.00467	5.75754	0.00206	0.00764	0.03788	0.00082	0.00876	0.04863	0.02163	0.05937	0.12563	0.3293	0.04858	5.7E-05	0.00217	0.00072	0.00023	0.00308	0.00078	7.9E-05	0.00308				
Los Angeles	2025	MDV	Aggregate	628539	Gasoline	0.10799	628539			0.10075	0.13078	0.00251	0.12395	0.00273	0.12468	4464	0.15459	0.00855	0.04241	0.00758	0.0815	0.03569	0.15458	0.05206	0.11017	1.14016	1.4663	0.11321	0.00858	0.17569	0.00257	0.11321	0.00858	0.17569	0.00257	0.11321	0.00858		
Los Angeles	2025	MDV	Aggregate	7395.59	Diesel	0.00127	7395.59			0.0009	0.00116	0.00011	0.00553	0.00012	0.00534	5.6676	0.00203	2.8E-05	0.00014	0.00089	0.0096	0.0006	0.00259	0.00068	0.00144	0.01141	0.00131	5.4E-05	0.00205	0.0011	0.00137	3.5E-05	0.00137						
Los Angeles	2025	MDV	Aggregate	49554.8	Electricity	0.00851	49554.8			0.00046	0.00059	7E-05	0.00346	7.3E-05	0.00334	0.99977	0.00037	2.8E-06	4.9E-05	0.00016	0.00019	0.00021	0.00091	0.00024	0.00051	0.0006	6.9E-05	0.0005	0.00036	0.0001	0.00044	3.8E-05	0.00052	1.3E-05	0.00052				
Los Angeles	2025	MDV	Aggregate	3448.07	Plug-In Hy	0.00596	3448.07	31233	4.6E-05	6E-05	1.2E-05	0.0006	1.3E-05	0.00061	1.80831	0.00065	8E-06	4E-05	5.4E-06	5.8E-05	3.2E-05	0.00014	4.6E-05	0.0006	0.00353	0.00041	1.8E-05	0.00068	0.00016	0.00068	0.00013	0.00175	4.5E-05	0.00175					
Los Angeles	2025	MH	Aggregate	1808.31	Gasoline	0.00031	1808.31			0.00085	0.0011	6.8E-06	0.00034	7.4E-06	0.00034	5.7728	0.00019	5.9E-05	0.00029	5.8E-05	0.00062	0.00025	0.00107	0.00036	0.00076	0.00042	0.0005	0.0021	8.9E-05	0.00038	0.00012	0.00167	4.5E-05	0.00167					
Los Angeles	2025	MH	Aggregate	563.407	Diesel	9.7E-05	563.407			0.00446	0.00579	7E-05	0.00346	7.3E-05	0.00334	0.99977	0.00037	2.8E-06	4.9E-05	0.00016	0.00019	0.00021	0.00091	0.00024	0.00051	0.0006	6.9E-05	0.0005	0.00036	0.0001	0.00044	3.8E-05	0.00052	1.3E-05	0.00052				
Los Angeles	2025	Motor Cycles	Aggregate	1104.99	Diesel	0.00019	1104.99			0.00617	0.00801	8.5E-06	0.00042	8.9E-06	0.00041	3.00162	0.00016	9.1E-06	4.9E-05	0.00047	0.00508	4.5E-05	0.00091	0.00052	0.00011	0.0006	6.9E-05	0.0											





Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Region	Calendar	Vehicle CA Model	Year	Fuel	Total VMT	CVMT	EVMT	NOx_RUN	CO2_RUN	CH4_RUN	N2O_RUN	SOx_RUN	PM10_RUN	PM25_RUN	PM10_P25	PM25_P25	PM10_P25_PMBW	PM25_P25_PMBW	RUNE_X_AVE																	
Los Angeles	2025	All Other F Aggregate	15	Diesel	1486.81	0.00026	1486.81	0	0.00565	0.00073	0.00016	0.00801	0.00017	0.00774	2.59194	0.00093	2.9E-05	0.00015	0.00041	0.00439	0.00063	0.00273	0.00072	0.00152	0.00136	0.00016	2.5E-05	0.00094	0.00033	0.00142	0.0001	0.00013	3.5E-05	0.00137		
Los Angeles	2025	LDA Aggregate	15	Diesel	4056.11	0.00007	4056.11	0	0.00099	0.00128	0.00021	0.0105	0.00022	0.01015	1.84942	0.00066	2.6E-05	0.00013	0.00029	0.00313	0.00057	0.00246	0.00065	0.00137	0.00077	0.00088	1.8E-05	0.00067	1.4E-05	5.9E-05	4E-05	0.00054	1.4E-05	0.00054		
Los Angeles	2025	LDT1 Aggregate	15	Diesel	36.3876	6.2E-05	36.3876	0	4.8E-05	6.2E-05	2E-05	0.00098	2.1E-05	0.00094	0.02923	1E-05	1.2E-06	5.8E-06	4.6E-06	5E-05	2.5E-05	0.00011	2.9E-05	6.1E-05	0.0001	1.2E-05	2.8E-07	1.1E-05	1.2E-07	5.3E-07	5.8E-07	7.9E-06	2E-07	7.9E-06		
Los Angeles	2025	LDT2 Aggregate	15	Diesel	3871.35	0.00067	3871.35	0	0.00039	0.00051	3.7E-05	0.00185	3.9E-05	0.00179	2.28075	0.00082	1.9E-05	9.5E-05	0.00386	0.00386	0.00041	0.00179	0.00047	0.00099	0.00396	0.00046	2.2E-05	0.00082	1.3E-05	5.7E-05	0.00069	1.8E-05	0.00069			
Los Angeles	2025	LHD1 Aggregate	15	Diesel	1725.11	0.00096	1725.11	0	0.02228	0.02892	0.00079	0.03894	0.00082	0.03765	16.29177	0.00583	0.00018	0.00091	0.00257	0.0276	0.00394	0.01708	0.00449	0.0095	0.01101	0.00127	0.00015	0.00589	0.0036	0.01544	0.00148	0.00017	0.00052	0.00017		
Los Angeles	2025	LHD2 Aggregate	15	Diesel	7679.3	0.00132	7679.3	0	0.00953	0.01238	0.00035	0.01754	0.00037	0.01695	8.60804	0.00308	0.00018	0.00136	0.01458	0.00178	0.00171	0.00203	0.00429	0.00487	0.00056	8.2E-05	0.00011	0.00163	0.00699	0.00077	0.01048	0.00027	0.01048			
Los Angeles	2025	MHD Aggregate	15	Diesel	7395.59	0.00127	7395.59	0	0.0009	0.00116	0.00011	0.00553	0.00012	0.00534	5.96676	0.00023	2.8E-05	0.00014	0.00089	0.0096	0.0006	0.00259	0.00068	0.00144	0.01141	0.00131	5.4E-05	0.00025	2.5E-05	0.00011	0.0001	0.00137	3.5E-05	0.00137		
Los Angeles	2025	MV Aggregate	15	Diesel	563.407	9.7E-05	563.407	0	0.00446	0.00579	7E-05	0.00346	7.3E-05	0.00334	0.99977	0.00036	9.8E-06	4.9E-05	0.00016	0.00021	0.00058	0.00024	0.00051	0.00006	6.9E-05	9.5E-06	0.00036	0.0001	0.00044	3.8E-05	0.00052	1.3E-05	0.00052			
Los Angeles	2025	Motor Coe Aggregate	15	Diesel	1104.99	0.00019	1104.99	0	0.00617	0.00801	8.5E-06	0.00042	8.9E-06	0.00041	3.00162	0.00017	2.1E-06	1E-05	0.00047	0.00508	4.5E-05	0.0002	5.2E-05	0.00011	0.00053	6.1E-05	2.8E-05	0.00108	0.00027	0.00115	0.00016	0.00224	5.8E-05	0.00224		
Los Angeles	2025	SBUS Aggregate	15	Diesel	1881.7	0.00032	1881.7	0	0.02367	0.03073	0.00018	0.00872	0.00018	0.00843	3.58096	0.00128	3.6E-05	0.00018	0.00056	0.00066	0.00078	0.00336	0.00088	0.00187	0.00149	0.00017	3.4E-05	0.00129	0.00018	0.00075	0.00013	0.00173	4.5E-05	0.00173		
Los Angeles	2025	T6 CAIRP C Aggregate	15	Diesel	12.9077	2.2E-06	12.9077	0	1.5E-05	2E-05	1.1E-07	5.6E-06	1.2E-07	5.4E-06	0.02171	7.8E-06	2.1E-08	1E-07	3.4E-06	3.7E-05	4.5E-07	1.9E-06	5.1E-07	1.1E-06	1.9E-06	2.1E-07	2.1E-07	7.8E-06	3.1E-06	1.3E-05	8.7E-07	1.2E-05	3.1E-07	1.2E-05		
Los Angeles	2025	T6 CAIRP F Aggregate	15	Diesel	17.7361	3E-06	17.7361	0	2.1E-05	2.7E-05	6.7E-08	3.3E-06	7E-08	3.2E-06	0.02993	1.1E-05	1.6E-08	8E-08	4.7E-06	5.1E-05	3.5E-07	1.5E-06	4E-07	8.4E-07	2.2E-06	2.5E-07	2.8E-07	1.1E-05	4.3E-06	1.8E-05	1.2E-06	1.6E-05	4.2E-07	1.6E-05		
Los Angeles	2025	T6 CAIRP G Aggregate	15	Diesel	465.042	7.9E-06	465.042	0	4.8E-05	6.2E-05	3E-07	1.5E-05	3.2E-07	1.4E-05	0.0759	2.7E-05	5.6E-08	2.8E-07	1.2E-05	0.00013	1.2E-06	5.3E-06	1.4E-06	2.9E-06	5.7E-06	6.5E-07	7.2E-07	2.7E-05	1.1E-05	4.8E-05	3.1E-06	4.2E-05	1.1E-06	4.2E-05		
Los Angeles	2025	T6 CAIRP H Aggregate	15	Diesel	291.529	5E-05	291.529	0	0.00036	0.00046	7.5E-07	3.7E-05	7.8E-07	3.6E-05	0.4562	0.00016	2.1E-07	1.1E-06	7.2E-05	0.00077	4.6E-06	2E-05	5.2E-06	1.1E-05	3.6E-05	4.1E-06	4.3E-06	0.00016	7.1E-05	0.0003	2E-05	0.00027	6.9E-06	0.00027		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	1866.28	0.00032	1866.28	0	0.00481	0.00624	0.00012	0.03059	0.00012	0.0055	3.22414	0.00015	1.8E-05	0.00051	0.00054	0.00071	0.00054	0.00095	0.00041	0.00001	3.1E-05	0.00117	0.00043	0.00184	0.00013	0.00172	4.4E-05	0.00172				
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	1940.39	0.00033	1940.39	0	0.00322	0.00417	3.7E-05	0.00184	3.9E-05	0.00178	3.39893	0.00019	6E-06	3E-05	0.00053	0.00566	0.00013	0.00056	0.00015	0.00031	0.00043	5E-05	3.2E-05	0.00121	0.00046	0.00199	0.00013	0.00179	4.6E-05	0.00179		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	5933.69	0.00102	5933.69	0	0.01086	0.01409	0.00014	0.00717	0.00015	0.00693	10.2176	0.00365	2.3E-05	0.00011	0.00161	0.0173	0.0005	0.00216	0.00057	0.0012	0.00153	0.00018	9.7E-05	0.00369	0.00141	0.00606	0.00014	0.00547	0.00014	0.00547		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	2384.33	0.00041	2384.33	0	0.00499	0.00648	8.6E-06	0.00042	9E-06	0.00041	4.15237	0.00048	2.8E-06	1.4E-05	0.00065	0.00703	6E-05	0.00026	6.9E-05	0.00015	0.00047	5.4E-05	3.9E-05	0.00015	0.00058	0.00248	0.00016	0.00016	5.7E-05	0.00022		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	2580.59	0.00044	2580.59	0	0.00622	0.00807	0.00014	0.00703	0.00015	0.0068	4.49902	0.00161	2.1E-05	0.0001	0.00071	0.00762	0.00045	0.00195	0.00051	0.00109	0.00109	0.00013	4.3E-05	0.00163	0.0006	0.00257	0.00016	0.00238	6.1E-05	0.00238		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	6035.78	0.00104	6035.78	0	0.00932	0.0121	6.1E-05	0.00301	6.4E-05	0.00291	10.4597	0.00374	1.1E-05	5.6E-05	0.00165	0.01771	0.00025	0.00106	0.00028	0.00059	0.00108	0.00012	9.9E-05	0.00378	0.00145	0.00624	0.00041	0.00556	0.00014	0.00556		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	5345.95	0.00092	5345.95	0	0.00988	0.01283	0.00014	0.00705	0.00015	0.00682	9.27154	0.00331	2.2E-05	0.00011	0.00146	0.0157	0.00048	0.00208	0.00055	0.00115	0.00143	0.00016	8.8E-05	0.00335	0.00127	0.00545	0.00036	0.00493	0.00013	0.00493		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	2680.87	0.00046	2680.87	0	0.00529	0.00687	1.1E-05	0.00053	1.1E-05	0.00051	4.64087	0.00166	3.4E-06	1.7E-05	0.00073	0.00786	7.3E-05	0.00032	8.3E-05	0.00018	0.00052	5.9E-05	4.4E-05	0.00168	0.00065	0.00279	0.00018	0.00247	6.4E-05	0.00247		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	90.0167	1.5E-05	90.0167	0	0.00013	0.00017	9.1E-07	4.5E-05	9.5E-07	4.4E-05	0.15497	5.5E-05	1.6E-07	7.9E-07	2.4E-05	0.00026	3.4E-06	1.5E-05	3.9E-06	8.3E-06	1.5E-05	1.8E-06	1.5E-06	5.6E-05	2.2E-05	9.3E-05	6.1E-06	8.3E-05	2.1E-06	8.3E-05		
Los Angeles	2025	T6 Instate Aggregate	15	Diesel	1303.24	0.00026	1303.24	0	0.00282	0.00366	5E-06	0.00028	5.2E-06	0.00024	2.19682	0.00079	1.7E-06	8.3E-06	0.00035	0.00372	3.6E-05	0.00016	4.1E-05	8.7E-05	0.00027	3.1E-05	2.1E-05	0.00079	0.00032	0.00031	8.8E-05	0.00012	3.1E-06	0.00012		
Los Angeles	2025	T6 OOS Cl. Aggregate	15	Diesel	7.45845	1.3E-06	7.45845	0	9.7E-06	1.3E-05	1.1E-07	5.4E-06	1.1E-07	5.2E-06	0.01238	4.4E-06	1.8E-08	9.2E-08	1.9E-06	2.1E-05	4E-07	1.7E-06	4.5E-07	9.6E-07	1.3E-06	1.5E-07	1.2E-07	4.5E-06	1.8E-06	7.7E-06	5.1E-07	6.9E-06	1.8E-07	6.9E-06		
Los Angeles	2025	T6 OOS Cl. Aggregate	15	Diesel	10.2317	1.8E-06	10.2317	0	1.2E-05	1.6E-05	1.1E-08	2.5E-06	5.4E-08	0.00705	6.1E-06	1.1E-08	5.6E-08	2.7E-06	2.9E-05	2.4E-07	1.1E-06	2.8E-07	5.8E-07	1.3E-06	1.5E-07	1.6E-07	6.2E-06	2.5E-06	1.1E-05	6.9E-07	9.4E-06	2.4E-07	9.4E-06			
Los Angeles	2025	T6 OOS Cl. Aggregate	15	Diesel	26.7356	4.6E-06	26.7356	0	3E-05	3.9E-05	2.8E-07	1.4E-05	2.9E-07	1.3E-05	0.00425	1.5E-05	4.8E-08	2.4E-07	6.8E-06	7.3E-05	1E-06	4.5E-06	1.2E-06	2.5E-06	3.9E-06	4.4E-07	4.1E-07	1.6E-05	6.4E-06	2.8E-05	1.8E-06	2.5E-05	6.3E-07			







Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Total VMT	%VMT	CVMT	EVMT	NOx_RUN1	NOx_RUN	PM2.5_RU	PM2.5_RU	PM10_RU	PM10_RU	CO2_RUN	CO2_RUN	CH4_RUN1	CH4_RUN1	N2O_RUN	N2O_RUN	ROG_RUN	ROG_RUN	TOG_RUN	TOG_RUN	CO_RUNE1	CO_RUNE1	SOx_RUNE	SOx_RUNE	SOx_RUNE	NH3_RUN	NH3_RUN	PM10_PM	PM10_PM	PM2.5_PA	PM2.5_PMBW	PM2.5_PMBW_RUNEX_AVE
Los Angeles	2025	LDA	Aggregate	45	Gasoline	8278121	0.44595	8278121	0	0.32402	0.14289	0.00842	0.2686	0.00916	0.27333	2287.07	0.34382	0.01616	0.1271	0.03732	0.12871	0.06113	0.22825	0.08919	0.20296	6.42182	0.39754	0.02261	0.34933	0.32514	0.34927	0.08076	0.27336	0.02827	0.27336		
Los Angeles	2025	LDT1	Aggregate	45	Gasoline	722281	0.03891	722281	0	0.11395	0.05025	0.00123	0.03918	0.00134	0.03987	238.179	0.03581	0.00499	0.03925	0.008	0.02761	0.02234	0.0834	0.03259	0.07416	1.29515	0.08018	0.00235	0.03638	0.03041	0.03266	0.00795	0.0269	0.00278	0.0269		
Los Angeles	2025	LDT2	Aggregate	45	Gasoline	4256136	0.22928	4256136	0	0.28852	0.12724	0.00445	0.14197	0.00484	0.14448	1442.86	0.21691	0.0109	0.0857	0.02515	0.08675	0.04283	0.15991	0.06249	0.1422	3.82107	0.23654	0.01426	0.22038	0.178	0.19121	0.04474	0.15144	0.01566	0.15144		
Los Angeles	2025	LHD1	Aggregate	45	Gasoline	424187	0.02285	424187	0	0.06215	0.02741	0.00039	0.01247	0.00043	0.01269	244.611	0.03677	0.00169	0.01326	0.00345	0.01191	0.00859	0.03206	0.01253	0.02851	0.32068	0.01985	0.00242	0.03736	0.021	0.02256	0.03647	0.12345	0.01277	0.12345		
Los Angeles	2025	LHD2	Aggregate	45	Gasoline	60539.2	0.00326	60539.2	0	0.00874	0.00385	5E-05	0.00159	5.4E-05	0.00162	40.2227	0.00605	0.00017	0.00133	0.00052	0.00179	0.0008	0.003	0.00117	0.00267	0.03589	0.00222	0.0004	0.00614	0.003	0.00322	0.00507	0.02055	0.00213	0.02055		
Los Angeles	2025	MCV	Aggregate	45	Gasoline	63877.8	0.00344	63877.8	0	0.03684	0.01625	0.00011	0.00344	0.00012	0.00345	12.0337	0.00181	0.00889	0.06987	0.0026	0.00895	0.05735	0.21413	0.06965	0.15849	0.80269	0.04969	0.00012	0.00184	0.00063	0.00067	0.00084	0.00286	0.0003	0.00286		
Los Angeles	2025	MDV	Aggregate	45	Gasoline	2346514	0.12641	2346514	0	0.25029	0.11038	0.00249	0.07945	0.00271	0.08084	974.51	0.1465	0.00867	0.06819	0.01884	0.06498	0.03646	0.13614	0.05319	0.12102	2.5641	0.15873	0.00963	0.14885	0.09694	0.10413	0.02527	0.08552	0.00884	0.08552		
Los Angeles	2025	MH	Aggregate	45	Gasoline	12948.4	0.0007	12948.4	0	0.00455	0.00201	1.3E-05	0.00043	1.5E-05	0.00043	22.6699	0.00341	0.00013	0.00099	0.00029	0.00101	0.00055	0.00205	0.0008	0.00182	0.01733	0.00107	0.00022	0.00346	0.00064	0.00069	0.00059	0.00201	0.00021	0.00201		
Los Angeles	2025	OBUS	Aggregate	45	Gasoline	13050.6	0.0007	13050.6	0	0.00587	0.00259	8.7E-06	0.00028	9.5E-06	0.00028	21.3471	0.00321	0.00011	0.0009	0.00028	0.00097	0.00056	0.00209	0.00082	0.00186	0.01787	0.00111	0.00021	0.00326	0.00065	0.0007	0.0006	0.00202	0.00021	0.00202		
Los Angeles	2025	SBUS	Aggregate	45	Gasoline	3697.41	0.0002	3697.41	0	0.00166	0.00073	2.2E-06	6.9E-05	2.4E-06	7E-05	2.9023	0.00044	2.6E-05	0.0002	9.1E-05	0.00031	0.00013	0.00048	0.00019	0.00043	0.00429	0.00027	2.9E-05	0.00044	0.00018	0.0002	0.00017	0.00057	5.9E-05	0.00057		
Los Angeles	2025	T6T5	Aggregate	45	Gasoline	68441.9	0.00369	68441.9	0	0.02596	0.01145	5.3E-05	0.0017	5.8E-05	0.00173	109.782	0.0165	0.00057	0.00445	0.00135	0.00466	0.00274	0.01022	0.00399	0.00909	0.00553	0.00109	0.01677	0.00339	0.00365	0.00314	0.01062	0.0011	0.01062			
Los Angeles	2025	TT15	Aggregate	45	Gasoline	251.572	1.4E-05	251.572	0	0.00167	0.00073	3.2E-07	1E-05	3.5E-07	1E-05	0.51838	7.8E-05	3E-05	0.00023	4.9E-05	0.00017	0.00016	0.0006	0.00023	0.00053	0.01024	0.00063	5.1E-06	7.9E-05	1.2E-05	1.3E-05	2.5E-05	8.4E-05	8.7E-06	8.4E-05		
Los Angeles	2025	UBUS	Aggregate	45	Gasoline	1190.39	6.4E-05	1190.39	0	9.5E-05	4.2E-05	9.9E-07	3.2E-05	1.1E-06	3.2E-05	1.21584	0.00018	1.4E-06	1.1E-05	9.3E-06	3.2E-05	4.7E-06	1.8E-05	6.8E-06	1.6E-05	0.0003	1.9E-05	1.2E-05	0.00019	5.9E-05	6.3E-05	0.00013	0.00044	4.5E-05	0.00044		

Composite	0.10955	0.16421	0.1671	0.2239	0.08704	0.0869	0.16043	0.14254	0.25536	0.22749
-----------	---------	---------	--------	--------	---------	--------	---------	---------	---------	---------

Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Region	Calendar	Vehicle Class	Model	Fuel	WMT	CVMT	EVMT	NOK_RUN	NOX_RUN	PM2.5	PM10	CO2_RUN	CO2_RUN	CH4_RUN	CH4_RUN	N2O_RUN	N2O_RUN	ROG_RUN	ROG_RUN	TOG_RUN	TOG_RUN	CO_RUN	CO_RUN	SOX_RUN	SOX_RUN	NH3_RUN	NH3_RUN	PM10_PM	PM10_PM	PM2.5_P	PM2.5_P	PMBW	PMBW	RUNEX_AVE
Los Angeles	2025	All Other	Diesel	7803.58	0.00042	7803.58	0	0.01269	0.0056	0.00032	0.01206	0.00034	0.01003	8.29606	0.00125	2.66-05	0.00021	0.00131	0.00451	0.00056	0.00211	0.00064	0.00146	0.00218	0.00013	7.9E-05	0.00121	0.00173	0.00186	0.00036	0.00121	0.00013	0.00121	
Los Angeles	2025	LDA	Diesel	15142.6	0.00082	15142.6	0	0.00363	0.0016	0.00032	0.01019	0.00033	0.00997	3.36019	0.00051	2.2E-05	0.00017	0.00053	0.00183	0.00048	0.00178	0.00054	0.00123	0.00042	0.00003	3.2E-05	0.00049	0.00049	0.00015	0.00051	5.3E-05	0.00051		
Los Angeles	2025	LD1	Diesel	135.845	7.3E-06	135.845	0	0.00023	0.0001	2.9E-05	0.00019	3E-05	0.00089	0.00528	7.9E-06	1.7E-06	1.3E-05	8.3E-06	2.9E-05	3.7E-05	0.00014	4.2E-05	9.5E-05	0.00002	1.2E-05	5E-07	7.7E-06	4.6E-07	5E-07	1.7E-06	5.8E-06	6E-07	5.8E-06	
Los Angeles	2025	LD2	Diesel	14452.9	0.00078	14452.9	0	0.00059	0.00026	6.6E-05	0.00211	6.9E-05	0.00207	4.11991	0.00062	7.6E-06	6E-05	0.00065	0.00224	0.00016	0.00061	0.00019	0.00042	0.00015	9.6E-05	3.9E-05	0.0006	4.9E-05	5.3E-05	0.00015	0.00051	5.2E-05	0.00051	
Los Angeles	2025	LHD1	Diesel	169262	0.00912	169262	0	0.16374	0.07221	0.00279	0.08911	0.00292	0.08715	79.0151	0.01188	0.00007	0.00549	0.01245	0.04294	0.01503	0.05614	0.01712	0.03895	0.02325	0.00181	0.00075	0.01157	0.03353	0.03797	0.01455	0.04026	0.00509	0.04026	
Los Angeles	2025	LHD2	Diesel	75346.7	0.00406	75346.7	0	0.06418	0.0283	0.00128	0.04081	0.00134	0.03991	41.4785	0.00624	0.00032	0.00254	0.00563	0.02254	0.00696	0.02598	0.00792	0.01802	0.00076	0.00039	0.00607	0.01601	0.01719	0.00075	0.00258	0.00265	0.02558		
Los Angeles	2025	MV	Diesel	27609.8	0.00149	27609.8	0	0.00255	0.00112	0.00018	0.00574	0.00019	0.00561	10.4821	0.00158	1.5E-05	0.00012	0.00165	0.00257	0.00033	0.00123	0.00037	0.00085	0.00517	0.00032	9.9E-05	0.00153	9.4E-05	0.0001	0.0003	0.001	0.0001	0.001	
Los Angeles	2025	MH	Diesel	4576.93	0.00025	4576.93	0	0.00157	0.00069	0.0003	0.00954	0.00031	0.00393	4.8855	0.00073	1.1E-05	8.4E-05	0.00077	0.00265	0.00026	0.00059	0.00026	0.00059	0.00105	6.5E-05	4.6E-05	0.00072	0.00083	0.00089	0.00021	0.00071	7.3E-05	0.00071	
Los Angeles	2025	Motor Coe	Diesel	6174.48	0.00033	6174.48	0	0.00688	0.00303	8.5E-05	0.00273	8.9E-05	0.00267	10.8777	0.00164	3.2E-06	2.5E-05	0.00171	0.00591	6.8E-05	0.00025	7.7E-05	0.00018	0.00053	3.3E-05	0.0001	0.00159	0.0015	0.00161	0.00054	0.00183	0.00019	0.00183	
Los Angeles	2025	SBUS	Diesel	1836.32	9.9E-05	1836.32	0	0.01147	0.00648	6.2E-05	0.00197	6.5E-05	0.00193	2.138	0.00032	5.5E-06	4.4E-05	0.00034	0.00116	0.00012	0.00045	0.00014	0.00031	0.00045	2.8E-05	2E-05	0.00031	0.00017	0.00018	8.4E-05	0.00028	0.00028	0.00028	
Los Angeles	2025	TCARP	Diesel	118.912	6.4E-06	118.912	0	3.5E-05	1.6E-05	5.1E-07	1.6E-05	5.3E-07	1.6E-05	0.12797	1.9E-05	3.5E-08	2.8E-07	2E-05	7E-05	7.6E-07	2.8E-06	8.7E-07	2E-06	5.1E-06	3.1E-07	1.2E-06	1.9E-05	2.9E-05	3.1E-05	5.5E-06	1.8E-05	1.9E-06	1.8E-05	
Los Angeles	2025	TCARP	Diesel	163.394	8.8E-06	163.394	0	4.2E-05	1.9E-05	5.1E-07	1.6E-05	5.3E-07	1.6E-05	0.17575	2.6E-05	3.3E-08	2.6E-07	2.8E-05	9.6E-05	7.1E-07	2.6E-06	8.1E-07	1.8E-06	5.8E-06	3.6E-07	1.7E-06	2.6E-05	4E-05	4.3E-05	2.5E-05	2.6E-06	2.5E-05		
Los Angeles	2025	TCARP	Diesel	424.09	2.3E-05	424.09	0	0.0001	4.5E-05	1.5E-06	4.7E-05	1.5E-06	4.5E-05	0.44028	6.8E-05	9.8E-08	7.7E-07	7.1E-05	0.00024	2.1E-06	7.9E-06	2.4E-06	5.5E-06	1.6E-05	9.7E-07	4.3E-06	6.6E-05	0.0001	0.00011	1.9E-05	6.6E-05	6.8E-06	6.5E-05	
Los Angeles	2025	TCARP	Diesel	2685.71	0.00014	2685.71	0	0.00068	0.0003	8E-06	0.00025	8.3E-06	0.00025	2.65507	0.0004	4.8E-07	3.8E-06	0.00042	0.00144	1E-05	3.9E-05	1.2E-05	2.7E-05	9.5E-05	5.9E-06	2.5E-05	0.00039	0.00065	0.0007	0.00012	0.00042	4.3E-05	0.00042	
Los Angeles	2025	T6 Instate	Diesel	12536.5	0.00068	12536.5	0	0.01415	0.00623	0.0002	0.00648	0.00021	0.00633	13.4393	0.00022	1.7E-05	0.00013	0.00022	0.00073	0.00137	0.00022	0.00042	0.00095	0.00167	0.0001	0.00013	0.00197	0.00228	0.00309	0.00057	0.00195	0.002	0.00195	
Los Angeles	2025	T6 Instate	Diesel	13034.3	0.0007	13034.3	0	0.00662	0.00292	8.9E-05	0.00283	9.3E-05	0.00277	14.0973	0.00212	6.5E-06	5.2E-05	0.00222	0.00766	0.00014	0.00053	0.00016	0.00037	0.00079	4.9E-05	0.00013	0.00206	0.00312	0.00335	0.0006	0.00202	0.00021	0.00202	
Los Angeles	2025	T6 Instate	Diesel	39858.7	0.00215	39858.7	0	0.02403	0.0106	0.00032	0.01032	0.00034	0.01009	42.8574	0.00644	0.0005	0.00019	0.00675	0.02329	0.00053	0.00198	0.0006	0.00137	0.00278	0.00017	0.00041	0.00627	0.00949	0.0102	0.00018	0.00618	0.00026	0.00249	
Los Angeles	2025	T6 Instate	Diesel	16016.4	0.00086	16016.4	0	0.00835	0.00368	7.4E-05	0.00238	7.8E-05	0.00232	17.0152	0.00256	4.7E-06	3.7E-05	0.00268	0.00925	0.00048	0.00038	0.00012	0.00026	0.00074	4.6E-05	0.00016	0.00249	0.00388	0.00417	0.00073	0.00249	0.00026	0.00249	
Los Angeles	2025	T6 Instate	Diesel	18358.7	0.00099	18358.7	0	0.01827	0.00806	0.00028	0.00903	0.0003	0.00883	19.8398	0.00298	2.2E-05	0.00018	0.00313	0.01078	0.00048	0.0018	0.00055	0.00125	0.00013	0.00019	0.0029	0.00426	0.00458	0.00084	0.00285	0.00029	0.00285		
Los Angeles	2025	T6 Instate	Diesel	42939.3	0.00231	42939.3	0	0.01771	0.00781	0.00021	0.00685	0.00022	0.00669	46.7386	0.00703	1.5E-05	0.00012	0.00736	0.0254	0.00033	0.00123	0.00037	0.00085	0.00206	0.00013	0.00044	0.00684	0.01035	0.01112	0.00197	0.00666	0.00069	0.00666	
Los Angeles	2025	T6 Instate	Diesel	38031.8	0.00205	38031.8	0	0.02342	0.01033	0.00034	0.01094	0.00036	0.01017	43.2337	0.00662	2.6E-05	0.0002	0.0065	0.02241	0.00055	0.00206	0.00063	0.00143	0.00279	0.00017	0.00039	0.00603	0.00904	0.00972	0.01074	0.0059	0.00061	0.0059	
Los Angeles	2025	T6 Instate	Diesel	19072.1	0.00103	19072.1	0	0.00945	0.00417	9E-05	0.00287	9.4E-05	0.0028	20.2714	0.00305	6E-06	4.7E-05	0.00319	0.01102	0.00013	0.00048	0.00015	0.00023	0.00088	5.4E-05	0.00019	0.00297	0.00462	0.00497	0.00087	0.00296	0.00031	0.00296	
Los Angeles	2025	T6 Instate	Diesel	640.389	3.4E-05	640.389	0	0.00025	0.0001	3.3E-06	0.0001	3.4E-06	0.0001	6.9442	0.0001	2.2E-07	1.7E-06	0.00011	0.00038	4.8E-06	1.8E-05	5.4E-06	1.2E-05	3E-05	1.9E-06	6.6E-06	0.0001	0.00015	0.00017	2.9E-05	9.9E-05	1E-05	9.9E-05	
Los Angeles	2025	T6 Instate	Diesel	92714	0.00025	92714	0	0.00512	0.00026	4.5E-05	0.00045	4.7E-05	0.00042	9.3136	0.0001	3E-06	2.4E-05	0.00017	0.00506	6.4E-05	0.00024	7.3E-05	0.00017	0.00044	2.7E-05	8.8E-05	0.00013	0.00025	0.00241	0.00043	0.00144	0.0005	0.00144	
Los Angeles	2025	T6 OOS Cl	Diesel	68.7109	3.7E-06	68.7109	0	2.6E-05	1.1E-05	3.9E-07	1.3E-05	4.1E-07	1.2E-05	0.00789	1.1E-05	2.9E-08	2.3E-07	1.1E-05	4E-05	6.3E-07	2.3E-06	7.1E-07	1.6E-06	3.6E-06	2.2E-07	6.9E-07	1.1E-05	1.6E-05	1.8E-05	3.1E-06	1.1E-05	1.1E-06	1.1E-05	
Los Angeles	2025	T6 OOS Cl	Diesel	94.259	5.1E-06	94.259	0	2.6E-05	1.2E-05	3.2E-07	1E-05	3.3E-07	9.9E-06	0.10004	1.1E-05	2.1E-08	1.7E-07	1.6E-05	5.4E-05	6.3E-07	1.7E-06	5.2E-07	1.2E-06	3.5E-06	2.2E-07	9.5E-07	1.5E-05	2.3E-05	2.4E-05	1.5E-05	1.5E-06	1.5E-05		
Los Angeles	2025	T6 OOS Cl	Diesel	246.302	1.3E-05	246.302	0	7.2E-05	3.2E-05	1.1E-06	3.4E-05	1.1E-06	3.3E-05	0.25589	3.8E-05	7.6E-08	6E-07	4E-05	0.00014	1.6E-06	6.1E-06	1.9E-06	4.2E-06	1.1E-05	6.6E-07	2.4E-06	3.7E-05	5.9E-05	6.4E-05	1.1E-05	3.8E-05	4E-06	3.8E-05	
Los Angeles	2025	T6 OOS Cl	Diesel	1790.92	9.6E-05	1790.92	0	0.00047	0.00021	5.4E-06	0.00017	5.7E-06	0.00017	1.75312	0.00026	3.2E-07	2.5E-06	0.00028	0.00095	6.9E-06	2.6E-05	6.3E-05	6.3E-05	3.9E-06	1.7E-05	0.00026	0.00043	0.00047	8.2E-05	0.00028	2.9E-05			

Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (CA)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2022 Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Table with columns for Region, Calendar Y Vehicle Ca Model Year Speed, Fuel, Total VMT, %VMT, CVMT, EVMT, and 28 pollutant categories (NOx, NMOC, PM2.5, etc.). The table contains 42 rows of data for Los Angeles, detailing emissions for various vehicle models and fuels.



Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Region	Calendar Yr	Vehicle Ca	Model	Yea	Speed	Fuel	Total VMT	%VMT	CVMT	EVMT	NOx_RUN1	NOx_RUN	PM2.5_RU	PM2.5_RU	PM10_RU	PM10_RU	CO2_RUN	CO2_RUN	CH4_RUN1	CH4_RUN1	N2O_RUN	N2O_RUN	ROG_RUN	ROG_RUN	TOG_RUN	TOG_RUN	CO_RUNE1	CO_RUNE1	SOx_RUNE	SOx_RUNE	NH3_RUN	NH3_RUN	PM10_PM	PM10_PM	PM2.5_PA	PM2.5_PA	PM2.5_PMBW	RUNEX_AVE
Los Angeles	2025	LDA	Aggregate	65	Gasoline	5457920	0.45005	5457920	0	0.22441	0.08841	0.00661	0.15179	0.00719	0.15593	1738.45	0.30315	0.01265	0.11855	0.02562	0.08338	0.04762	0.21694	0.06949	0.19183	3.30351	0.35571	0.01719	0.30936	0.21437	0.2923	0.01169	0.07586	0.00409	0.07586			
Los Angeles	2025	LDT1	Aggregate	65	Gasoline	476213	0.03927	476213	0	0.08575	0.03378	0.00093	0.0213	0.00101	0.02188	180.762	0.03152	0.00371	0.03478	0.00587	0.01911	0.01652	0.07526	0.02411	0.06654	0.69965	0.07534	0.00179	0.03217	0.02005	0.02734	0.00137	0.00891	0.00048	0.00891			
Los Angeles	2025	LDT2	Aggregate	65	Gasoline	2806150	0.23139	2806150	0	0.20449	0.08056	0.00349	0.08006	0.00379	0.08225	1095.92	0.1911	0.00841	0.07885	0.01752	0.05702	0.03284	0.1496	0.04792	0.13228	1.97826	0.21301	0.01083	0.19502	0.11736	0.16002	0.00773	0.05015	0.00271	0.05015			
Los Angeles	2025	LHD1	Aggregate	65	Gasoline	376747	0.03107	376747	0	0.06096	0.02402	0.00048	0.01091	0.00052	0.01121	234.777	0.04094	0.00199	0.01865	0.00343	0.01116	0.01004	0.04573	0.01465	0.04044	0.50771	0.05467	0.00232	0.04178	0.01865	0.02543	0.03239	0.21016	0.01134	0.21016			
Los Angeles	2025	LHD2	Aggregate	65	Gasoline	53768.8	0.00443	53768.8	0	0.00051	0.00335	6E-05	0.00139	6.6E-05	0.00143	38.7195	0.00675	0.0002	0.00186	0.00051	0.00167	0.00093	0.00425	0.00136	0.00376	0.05394	0.00581	0.00038	0.00689	0.00267	0.00363	0.00539	0.03499	0.00189	0.03499			
Los Angeles	2025	MCV	Aggregate	65	Gasoline	42115.8	0.00347	42115.8	0	0.02654	0.01046	8.9E-05	0.00203	9.5E-05	0.00206	9.22031	0.00161	0.00731	0.06852	0.00186	0.00607	0.0473	0.21549	0.05739	0.15843	0.66398	0.0715	9.1E-05	0.00164	0.00041	0.00056	0.00361	0.00019	0.00361				
Los Angeles	2025	MDV	Aggregate	65	Gasoline	1547101	0.12757	1547101	0	0.17769	0.07001	0.00195	0.04472	0.00212	0.04594	739.813	0.12901	0.00671	0.06291	0.01321	0.04297	0.02812	0.12808	0.04101	0.11322	1.34846	0.1452	0.00731	0.13165	0.06391	0.08715	0.00436	0.02832	0.00153	0.02832			
Los Angeles	2025	MH	Aggregate	65	Gasoline	12966.8	0.00107	12966.8	0	0.00489	0.00193	1.6E-05	0.00037	1.8E-05	0.00038	26.0947	0.00455	0.00016	0.00147	0.00031	0.00101	0.00069	0.00315	0.00101	0.00278	0.02275	0.00245	0.00026	0.00464	0.00064	0.00087	0.00059	0.00386	0.00021	0.00386			
Los Angeles	2025	OBUS	Aggregate	65	Gasoline	12580	0.00104	12580	0	0.00618	0.00243	1E-05	0.00023	1.1E-05	0.00024	23.6403	0.00412	0.00013	0.00123	0.00029	0.00096	0.00064	0.00293	0.00094	0.00259	0.01477	0.00159	0.00023	0.00421	0.00062	0.00085	0.00058	0.00374	0.0002	0.00374			
Los Angeles	2025	SBUS	Aggregate	65	Gasoline	1500.45	0.00012	1500.45	0	0.00069	0.00027	1.1E-06	2.4E-05	1.1E-06	2.5E-05	1.35252	0.00024	1.3E-05	0.00012	3.8E-05	0.00012	6.3E-05	0.00029	9.2E-05	0.00025	0.00134	0.00014	1.3E-05	0.00024	7.4E-05	0.0001	6.9E-05	0.00045	2.4E-05	0.00045			
Los Angeles	2025	T6T5	Aggregate	65	Gasoline	68538.8	0.00565	68538.8	0	0.02732	0.01076	6.4E-05	0.00147	7E-05	0.00151	126.302	0.02202	0.00068	0.00642	0.00142	0.00462	0.00332	0.01511	0.00484	0.01336	0.07604	0.00819	0.00125	0.02248	0.0034	0.00463	0.00314	0.02038	0.0011	0.02038			
Los Angeles	2025	T7T5	Aggregate	65	Gasoline	294.287	2.4E-05	294.287	0	0.00213	0.00084	4.7E-07	1.1E-05	5.1E-07	1.1E-05	0.69447	0.00012	4.3E-05	0.0004	6.2E-05	0.0002	0.00023	0.00107	0.00034	0.00094	0.01218	0.00131	6.9E-06	0.00012	1.4E-05	2E-05	2.5E-05	0.00016	8.9E-06	0.00016			
Los Angeles	2025	UBUS	Aggregate	65	Gasoline	1033.18	8.5E-05	1033.18	0	8.4E-05	3.3E-05	1.2E-06	2.7E-05	1.3E-06	2.7E-05	1.10716	0.00019	1.5E-06	1.4E-05	8.3E-06	2.7E-05	5E-06	2.3E-05	7.2E-06	2E-05	0.00056	6E-05	1.1E-05	0.0002	5.1E-05	7E-05	0.00011	0.00072	3.9E-05	0.00072			

Composite	0.06955	0.09374	0.0963	0.19979	0.08185	0.05735	0.15383	0.1359	0.23288	0.20388
-----------	---------	---------	--------	---------	---------	---------	---------	--------	---------	---------

Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed

Region	Calendar	Vehicle CA Model	Fuel	Total VMT	%VMT	CVMT	EVMT	NOx_RUN	NOx_RUN	PM2.5_RU	PM2.5_RU	PM10_RU	CO2_RUN	CO2_RUN	CH4_RUN	CH4_RUN	N2O_RUN	N2O_RUN	ROG_RUN	ROG_RUN	TOG_RUN	TOG_RUN	CO_RUNE	CO_RUNE	SOx_RUN	SOx_RUN	NH3_PA	NH3_PA	PM10_PM	PM10_PM	PM2.5_PA	PM2.5_PA	PM2.5_PMBW	RUNEX_AVE
Los Angeles	2025	All Other E Aggregate	65 Diesel	7522.18	0.00062	7522.18	0	0.00159	0.00598	0.00043	0.00988	0.00045	0.00975	1.91661	0.0016	2.8E-05	0.00026	0.00145	0.00471	0.00059	0.0027	0.00068	0.00187	0.00186	0.0002	8.7E-05	0.00157	0.00167	0.00228	0.00034	0.00224	0.00012	0.00224	
Los Angeles	2025	LDA Aggregate	65 Diesel	9983.81	0.00082	9983.81	0	0.00271	0.01017	0.00026	0.00599	0.00027	0.00591	2.83264	0.00049	1.7E-05	0.00016	0.00045	0.00145	0.00337	0.00168	0.00042	0.00116	0.00407	0.00044	2.7E-05	0.00048	3.4E-05	4.7E-05	2.2E-05	0.00014	7.6E-06	0.00014	
Los Angeles	2025	LD1T Aggregate	65 Diesel	89.5654	7.4E-06	89.5654	0	0.00018	7E-05	2.5E-05	0.00057	2.6E-05	0.00056	0.04486	7.7E-06	1.5E-06	1.4E-05	7E-06	2.3E-05	3.2E-05	0.00014	3.6E-05	1E-04	0.00024	2.6E-05	4.2E-07	7.6E-06	3.1E-07	4.2E-07	3E-07	1.9E-06	1E-07	1.9E-06	
Los Angeles	2025	LD12 Aggregate	65 Diesel	9529.04	0.00079	9529.04	0	0.00037	0.00104	4.1E-05	0.00094	4.3E-05	0.00093	3.4608	0.0006	3.9E-06	3.6E-05	0.00055	0.00177	8.3E-05	0.00038	3.5E-05	0.00026	0.00082	8.9E-05	3.3E-05	0.00059	3.3E-05	4.4E-05	2.6E-05	0.00017	9E-06	0.00017	
Los Angeles	2025	LHD1 Aggregate	65 Diesel	166760	0.01375	166760	0	0.18118	0.07338	0.00273	0.06264	0.00285	0.05184	83.4031	0.01454	0.00005	0.00465	0.01314	0.04276	0.01069	0.04869	0.01217	0.03359	0.03372	0.00342	0.00079	0.01423	0.03483	0.04749	0.01434	0.09303	0.00502	0.09303	
Los Angeles	2025	LHD2 Aggregate	65 Diesel	7423.28	0.00061	7423.28	0	0.07139	0.02813	0.00123	0.02821	0.00128	0.02785	45.6655	0.00011	0.00202	0.00688	0.02399	0.00463	0.02109	0.00527	0.01455	0.01218	0.00131	0.00041	0.00745	0.01577	0.0215	0.00745	0.04831	0.00261	0.04831		
Los Angeles	2025	MDV Aggregate	65 Diesel	18203.7	0.0015	18203.7	0	0.00184	0.00072	0.00013	0.00302	0.00014	0.00298	9.91216	0.00055	9.9E-06	0.0014	0.00457	0.00021	0.00097	0.00024	0.00067	0.00334	0.00036	8.4E-05	0.00152	6.2E-05	8.5E-05	5.1E-05	0.00033	1.8E-05	0.00033		
Los Angeles	2025	MH Aggregate	65 Diesel	5108.12	0.00042	5108.12	0	0.01607	0.00663	0.00052	0.01204	0.00055	0.01189	5.34719	0.00093	1.2E-05	0.00011	0.00084	0.00274	0.00026	0.00118	0.0003	0.00082	0.01012	0.00012	5.1E-05	0.00091	0.00092	0.00126	0.00023	0.00152	8.2E-05	0.00152	
Los Angeles	2025	Motor Ctr Aggregate	65 Diesel	12401.1	0.00102	12401.1	0	0.0229	0.00902	0.00045	0.01037	0.00047	0.01024	24.0574	0.0042	9.2E-06	8.6E-05	0.00379	0.01233	0.0002	0.00099	0.00022	0.00062	0.00073	7.8E-05	0.00023	0.0041	0.00301	0.0041	0.00095	0.00615	0.00033	0.00615	
Los Angeles	2025	SBUS Aggregate	65 Diesel	745.196	6.1E-05	745.196	0	0.00606	0.00239	3.5E-05	0.00079	3.6E-05	0.00078	0.88365	0.00015	2.4E-06	2.2E-05	0.00014	0.00045	5.1E-05	0.00023	5.8E-05	0.00016	0.00117	1.8E-05	8.4E-06	0.00015	7E-05	9.5E-05	3.4E-05	0.00022	1.2E-05	0.00022	
Los Angeles	2025	T6 CAIRP C Aggregate	65 Diesel	145.798	1.2E-05	145.798	0	6.4E-05	2.5E-05	1.4E-06	3.2E-05	1.4E-06	3.1E-05	0.1836	3.2E-05	6.8E-08	6.4E-07	2.9E-05	9.4E-05	1.5E-06	6.7E-06	1.7E-06	4.6E-06	5.8E-07	1.7E-06	3.1E-05	3.5E-05	4.8E-05	6.7E-06	4.3E-05	2.3E-06	4.3E-05		
Los Angeles	2025	T6 CAIRP F Aggregate	65 Diesel	200.337	1.7E-05	200.337	0	8.3E-05	3.3E-05	1.7E-06	3.8E-05	1.7E-06	3.8E-05	0.25239	4.4E-05	7.2E-08	6.8E-07	4E-05	0.00013	1.6E-06	7.1E-06	1.8E-06	4.9E-06	6.4E-06	6.8E-07	2.4E-06	4.3E-05	4.9E-05	6.6E-05	9.2E-06	6E-05	3.2E-06	6E-05	
Los Angeles	2025	T6 CAIRP G Aggregate	65 Diesel	519.976	4.3E-05	519.976	0	0.00019	7.4E-05	4.3E-06	9.9E-05	4.5E-06	9.7E-05	0.64478	0.00011	2E-07	1.9E-06	0.0001	0.00033	4.3E-06	2E-05	4.9E-06	1.4E-05	1.7E-05	1.8E-06	6.1E-06	0.00011	0.00013	0.00017	2.4E-05	0.00015	8.3E-06	0.00015	
Los Angeles	2025	T6 CAIRP H Aggregate	65 Diesel	3292.95	0.00027	3292.95	0	0.00139	0.00055	2.7E-05	0.00063	2.9E-05	0.00062	3.80704	0.00066	1.1E-06	1E-05	0.0006	0.00195	2.4E-05	0.00011	0.0011	2.7E-05	7.5E-05	0.0001	1.1E-05	3.6E-05	0.00065	0.0008	0.00109	0.00105	0.00098	5.3E-05	0.00098
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	10704.2	0.00088	10704.2	0	0.01492	0.00588	0.00028	0.00641	0.00029	0.00633	13.3153	0.00232	1.9E-05	0.00018	0.0021	0.00683	0.00011	0.00186	0.00040	0.00128	0.00121	0.00013	0.00013	0.00027	0.00246	0.00335	0.00049	0.00098	0.00103	0.00318	
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	11129.2	0.00092	11129.2	0	0.00803	0.00316	0.00015	0.00343	0.00016	0.00338	14.0731	0.00245	8.1E-06	7.6E-05	0.00222	0.01721	0.00017	0.0008	0.0002	0.00055	0.00059	6.3E-05	0.00013	0.0024	0.00266	0.00363	0.00051	0.00331	0.00018	0.00331	
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	34033	0.00281	34033	0	0.02857	0.01126	0.00052	0.01183	0.00054	0.01368	42.7598	0.00746	6.9E-06	0.00028	0.00674	0.02192	0.00064	0.00289	0.00072	0.00052	0.00206	0.00022	0.0004	0.00729	0.0081	0.01105	0.01012	0.00516	0.01012	0.00055	0.01012
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	13675.4	0.00113	13675.4	0	0.01209	0.00476	0.00017	0.00387	0.00018	0.01382	17.0498	0.00297	6.9E-06	6.5E-05	0.00269	0.00874	0.00015	0.00068	0.00017	0.00047	0.00061	6.5E-05	0.00016	0.00291	0.00332	0.00452	0.00063	0.00407	0.00022	0.00407	
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	16142.6	0.00133	16142.6	0	0.02039	0.00803	0.00039	0.00831	0.00041	0.00879	20.2969	0.00354	2.5E-05	0.00024	0.0032	0.01041	0.00055	0.00249	0.00062	0.0172	0.00157	0.00017	0.00019	0.00346	0.00375	0.00511	0.00074	0.0048	0.00026	0.0048	
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	37756.1	0.00311	37756.1	0	0.02375	0.00936	0.00042	0.00968	0.00044	0.00956	48.108	0.00839	2.1E-05	0.0002	0.00758	0.02466	0.00045	0.00205	0.00051	0.00141	0.00162	0.00017	0.00046	0.0082	0.0091	0.01241	0.00173	0.01123	0.00061	0.01123	
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	33440.9	0.00276	33440.9	0	0.02841	0.01119	0.00053	0.01226	0.00056	0.0121	42.3613	0.00739	3.1E-05	0.00029	0.00667	0.02172	0.00066	0.00301	0.00075	0.00208	0.00212	0.00023	0.0004	0.00722	0.00795	0.01084	0.00153	0.00995	0.00054	0.00995	
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	16769.9	0.00138	16769.9	0	0.01389	0.00547	0.0002	0.0047	0.00021	0.00464	20.896	0.00364	8.7E-06	8.2E-05	0.00329	0.01071	0.00019	0.00086	0.00021	0.00059	0.00073	7.9E-05	0.0002	0.00356	0.00407	0.00554	0.00077	0.00499	0.00027	0.00499	
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	563.088	4.6E-05	563.088	0	0.00033	0.00013	6.2E-06	0.00014	6.5E-06	0.00014	0.71503	0.00012	3E-07	2.8E-06	0.00011	0.00037	6.4E-06	2.9E-05	7.3E-06	2E-05	2.3E-05	2.5E-06	6.8E-06	0.00012	0.00014	0.00019	2.6E-05	0.00017	9E-06	0.00017	
Los Angeles	2025	T6 Instate Aggregate	65 Diesel	8152.25	0.00067	8152.25	0	0.00759	0.00293	0.0001	0.0024	0.00011	0.00237	9.56214	0.00167	4.4E-06	4.1E-05	0.00151	0.00049	6.4E-05	0.00043	0.00041	0.0003	0.00037	4E-05	9.1E-05	0.00163	0.00198	0.00269	0.00037	0.00242	0.00013	0.00242	
Los Angeles	2025	T6 OOS Cl: Aggregate	65 Diesel	84.2464	6.9E-06	84.2464	0	4.4E-05	1.7E-05	9.4E-07	2.2E-05	9.9E-07	2.1E-05	0.10446	1.8E-05	5.2E-08	4.9E-07	1.6E-05	5.4E-05	1.1E-06	5.1E-06	1.3E-06	3.1E-06	3.7E-06	4E-07	9.9E-07	1.8E-05	2E-05	2.8E-05	3.9E-06	2.5E-05	1.4E-06	2.5E-05	
Los Angeles	2025	T6 OOS Cl: Aggregate	65 Diesel	115.571	9.5E-06	115.571	0	5E-05	2E-05	1.0E-06	2.3E-05	1E-06	2.3E-05	0.14363	2.5E-05	4.5E-08	4.3E-07	2.3E-05	7.4E-05	9.8E-07	4.5E-06	1.1E-06	3.1E-06	3.8E-06	4.1E-07	1.4E-06	2.4E-05	2.8E-05	5.3E-06	1.4E-05	1.9E-06	3.4E-05		
Los Angeles	2025	T6 OOS Cl: Aggregate	65 Diesel	301.99	2.5E-05	301.99	0	0.00013	4.9E-05	2.8E-06	6.5E-05	3E-06	6.4E-05	0.36696	6.4E-05	1.4E-07	1.4E-06	5.8E-05	0.00019	3.1E-06	1.4E-05	3.5E-06	9.8E-06	1.1E-05	1.2E-06	3.5E-06	6.3E-05	7.3E-05	9.9E-05	1.4E-05	9E-05	4.8E-06	9E-05	
Los Angeles	2025	T6 OOS Cl: Aggregate	65 Diesel	2195.84	0.00018	2195.84	0	0.00097	0.00038	1.9E-05	0.00042	1.9E-05	0.00042	2.51515	0.00044	7.4E-07	7E-06	0.0004	0.00129	1.6E-05	7.3E-05	1.8E-05	5E-05	7E-05	7.6E-06	2.4E-05	0.00043	0.00053	0.00073	0.0001	0.00065	3.5E-05	0.00065	
Los Angeles	2025	T6 Public C Aggregate	65 Diesel	2151.8	0.00018	2151.8	0	0.00683	0.00269	4.5E-05	0.00103	4.7E-05	0.00102	2.59001	0.00045	2.2E-06	2.1E-05	0.00041	0.00133	4.8E-05	0.00022	5.5E-05	0.00015	0.00017	1.8E-05	2.5E-05	0.00044	0.00037	0.00051	9.9E-05	0.00064	3.5E-05	0.00064	
Los Angeles	2025	T6 Public C Aggregate	65 Diesel	1461.47	0.00012	1461.47	0	0.00047	0.00185	3E-05	0.00058	3.1E-05	0.00058	1.78362	0.00031	1.5E-06	1.4E-05	0.00028	0.00091	3.2E-05	0.00015	3.7E-05	0.0001	0.00011	1.2E-05	1.7E-05	0.0003	0.00024	0.00033	6.7E-05	0.00043	2.3E-05	0.00043	
Los Angeles	2025	T6 Public C Aggregate	65 Diesel	1778.46	0.00015	1778.46	0	0.00919	0.00362	3.6E-05	0.00121	5.5E-05	0.0012																					





## Emission Factor Rate Adjustment

### CO Emissions

Acceleration/On-Ramp (15 - 45 mph)

$$Emfac (gr/mi) = (emfac \text{ at average link speed} \times 16/60) \times (0.027) \times (exp (.098 \times \text{acceleration speed product})) \times (60 \text{ min/hr}) / (\text{average link speed})$$

Emfac at link speed 0.25611 FROM EMFAC SHEET: Value at 45 mph

Speed (mph) 45  
acceleration time (sec) 18  
acceleration rate (mph/sec) 2.5

Emfac (gr/mi) 0.609

### Deceleration/Off-Ramp

$$Emfac (gr/mi) = (emfac \text{ at idle speed} \times 1.5)$$

Emfac Idle speed (gr/mi) 0.082939 FROM EMFAC SHEET: Value at 5 mph

Emfac Deceleration (gr/mi) 0.124

### NOX Emissions

Acceleration/On-Ramp (15 - 45 mph)

$$Emfac (gr/mi) = (emfac \text{ at average link speed} \times 16/60) \times (0.027) \times (exp (.098 \times \text{acceleration speed product})) \times (60 \text{ min/hr}) / (\text{average link speed})$$

Emfac at link speed 0.112056  
Speed (mph) 45  
acceleration time (sec) 18  
acceleration rate (mph/sec) 2.5

Emfac (gr/mi) 0.267

### Deceleration/Off-Ramp

$$Emfac (gr/mi) = (emfac \text{ at idle speed} \times 1.5)$$

Emfac Idle speed (gr/mi) 0.059282

Emfac Deceleration (gr/mi) 0.089

### PM10 Emissions

Acceleration/On-Ramp (15 - 45 mph)

$$Emfac (gr/mi) = (emfac \text{ at average link speed} \times 16/60) \times (0.027) \times (exp (.098 \times \text{acceleration speed product})) \times (60 \text{ min/hr}) / (\text{average link speed})$$

Emfac at link speed 0.169051  
Speed (mph) 45  
acceleration time (sec) 18  
acceleration rate (mph/sec) 2.5

Emfac (gr/mi) 0.4021

### Deceleration/Off-Ramp

$$Emfac (gr/mi) = (emfac \text{ at idle speed} \times 1.5)$$

Emfac Idle speed (gr/mi) 0.164283

Emfac Deceleration (gr/mi) 0.246

### PM2.5 Emissions

Acceleration/On-Ramp (15 - 45 mph)

$$Emfac (gr/mi) = (emfac \text{ at average link speed} \times 16/60) \times (0.027) \times (exp (.098 \times \text{acceleration speed product})) \times (60 \text{ min/hr}) / (\text{average link speed})$$

Emfac at link speed 0.1662  
Speed (mph) 45  
acceleration time (sec) 18  
acceleration rate (mph/sec) 2.5

Emfac (gr/mi) 0.3953

### Deceleration/Off-Ramp

$$Emfac (gr/mi) = (emfac \text{ at idle speed} \times 1.5)$$

Emfac Idle speed (gr/mi) 0.16363

Emfac Deceleration (gr/mi) 0.245

### TOG GAS Emissions

Acceleration/On-Ramp (15 - 45 mph)

$$Emfac (gr/mi) = (emfac \text{ at average link speed} \times 16/60) \times (0.027) \times (exp (.098 \times \text{acceleration speed product})) \times (60 \text{ min/hr}) / (\text{average link speed})$$

Emfac at link speed	0.142539
Speed (mph)	45
acceleration time (sec)	18
acceleration rate (mph/sec)	2.5

Emfac (gr/mi)	0.339
---------------	-------

**Deceleration/Off-Ramp**

*Emfac (gr/mi) = (emfac at idle speed \* 1.5)*

Emfac Idle speed (gr/mi)	0.053259
--------------------------	----------

Emfac Deceleration (gr/mi)	0.080
----------------------------	-------

**TOG DSL Emissions**

Acceleration/On-Ramp (15 - 45 mph)

*Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)*

Emfac at link speed	0.000493
Speed (mph)	45
acceleration time (sec)	18
acceleration rate (mph/sec)	2.5

Emfac (gr/mi)	0.001
---------------	-------

**Deceleration/Off-Ramp**

*Emfac (gr/mi) = (emfac at idle speed \* 1.5)*

Emfac Idle speed (gr/mi)	6.13E-05
--------------------------	----------

Emfac Deceleration (gr/mi)	0.00009
----------------------------	---------

**DSL Particulate Emissions**

Acceleration/On-Ramp (15 - 45 mph)

*Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)*

Emfac at link speed	0.001865
Speed (mph)	45
acceleration time (sec)	18
acceleration rate (mph/sec)	2.5

Emfac (gr/mi)	0.004
---------------	-------

**Deceleration/Off-Ramp**

*Emfac (gr/mi) = (emfac at idle speed \* 1.5)*

Emfac Idle speed (gr/mi)	0.000121
--------------------------	----------

Emfac Deceleration (gr/mi)	0.0002
----------------------------	--------





**Emission Factor Profile Worksheet**  
**Chronic Exposure**

TOG - Toxic Emissions

Gasoline/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.028414	0.021422	0.006603	0.005511	0.001533
2005	0.028205	0.021200	0.006551	0.005450	0.001520
2006	0.027938	0.021000	0.006483	0.005350	0.001510
2007	0.027660	0.020700	0.006410	0.005250	0.001490
2008	0.027338	0.020300	0.006326	0.005120	0.001470
2009	0.026849	0.019800	0.006190	0.004870	0.001450
2010	0.026521	0.019400	0.006105	0.004750	0.001430
2011	0.026521	0.019400	0.006105	0.004750	0.001430
2012	0.025656	0.018500	0.005873	0.004370	0.001380
2013	0.025656	0.018500	0.005873	0.004370	0.001380
2014	0.025656	0.018500	0.005873	0.004370	0.001380
2015	0.024349	0.017100	0.005530	0.003850	0.001310
2016	0.024349	0.017100	0.005530	0.003850	0.001310
2017	0.024349	0.017100	0.005530	0.003850	0.001310
2018	0.022182	0.014700	0.004944	0.002860	0.001190
2019	0.022182	0.014700	0.004944	0.002860	0.001130
2020	0.021079	0.013600	0.004659	0.002450	0.001130
2021	0.021079	0.013600	0.004659	0.002450	0.001130
2022	0.021079	0.013600	0.004659	0.002450	0.001130
2023	0.021079	0.013600	0.004659	0.002450	0.001130
2024	0.021079	0.013600	0.004659	0.002450	0.001130
2025	0.021079	0.013600	0.004659	0.002450	0.001130
2026	0.021079	0.013600	0.004659	0.002450	0.001130
2027	0.021079	0.013600	0.004659	0.002450	0.001130
2028	0.021079	0.013600	0.004659	0.002450	0.001130
2029	0.021079	0.013600	0.004659	0.002450	0.001130
2030	0.021079	0.013600	0.004659	0.002450	0.001130

Analysis Year

2025	0.021079	0.013600	0.004659	0.002450	0.001130
------	----------	----------	----------	----------	----------

**TOG Emission Rate - gr/mi**

Speed (MPH)	Acceleration	0.339041821		
	Deceleration	0.0798885		
	65	0.135899		FROM EMFAC SHEET (TOG_GAS_RUNEX)

**Toxic Emission Rate - gr/mi**

	Acceleration	Deceleration	65
Benzene	0.007146663	0.00168397	0.002864615
Formaldehyde	0.004610969	0.001086484	0.001848226
1,3-Butadiene	0.001579596	0.000372201	0.000633153
Acetaldehyde	0.000830652	0.000195727	0.000332953
Acrolein	0.000383117	9.0274E-05	0.000153566

**Toxic Emission Rate - gr/mi**

Speed (MPH)	Acceleration	0.014550997
	Deceleration	0.003428655
	65	0.005832513

Weight Fraction/Speciation

Benzene	0.491
Formaldehyde	0.317
1,3-Butadiene	0.461
Acetaldehyde	0.057
Acrolein	0.026

**Diesel Particulate Emissions - PM10**

PM10 Emission Rate - gr/mi Speed (MPH)	Acceleration	0.00443607	
	Deceleration	0.0001815	
	15	0.000217	FROM EMFAC SHEET (PM10_DSL_RUNEX)
	45	0.001865	FROM EMFAC SHEET (PM10_DSL_RUNEX)
	65	0.004903	FROM EMFAC SHEET (PM10_DSL_RUNEX)

	Acceleration	Deceleration	45	65
Benzene	9.35079E-05	3.82584E-06	3.93123E-05	0.000103
Formaldehyde	6.03306E-05	2.4684E-06	0.000025364	6.67E-05
1,3-Butadiene	2.06677E-05	8.45609E-07	8.68904E-06	2.28E-05
Acetaldehyde	1.08684E-05	4.44675E-07	4.56925E-06	1.2E-05
Acrolein	5.01276E-06	2.05095E-07	2.10745E-06	5.54E-06

<b>Toxic Emission Rate - gr/mi</b>	Acceleration	0.000190387
------------------------------------	--------------	-------------

Speed (MPH)	Deceleration	7.78962E-06
	45	8.00421E-05
	65	0.000210427

Source: TOG/toxic fraction from UC Davis-Caltrans Air Quality Project, *Estimating Mobile Source Air Toxic Emissions: A Step-by-Step Project Analysis Methodology*. Task Order No. 61

**Emission Factor Profile Worksheet**  
**Acute/8-hour Exposure**

TOG - Toxic Emissions

Gasoline/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.028414	0.021422	0.006603	0.005511	0.001533
2005	0.028205	0.021200	0.006551	0.005450	0.001520
2006	0.027938	0.021000	0.006483	0.005350	0.001510
2007	0.027660	0.020700	0.006410	0.005250	0.001490
2008	0.027338	0.020300	0.006326	0.005120	0.001470
2009	0.026849	0.019800	0.006190	0.004870	0.001450
2010	0.026521	0.019400	0.006105	0.004750	0.001430
2011	0.026521	0.019400	0.006105	0.004750	0.001430
2012	0.025656	0.018500	0.005873	0.004370	0.001380
2013	0.025656	0.018500	0.005873	0.004370	0.001380
2014	0.025656	0.018500	0.005873	0.004370	0.001380
2015	0.024349	0.017100	0.005530	0.003850	0.001310
2016	0.024349	0.017100	0.005530	0.003850	0.001310
2017	0.024349	0.017100	0.005530	0.003850	0.001310
2018	0.022182	0.014700	0.004944	0.002860	0.001190
2019	0.022182	0.014700	0.004944	0.002860	0.001130
2020	0.021079	0.013600	0.004659	0.002450	0.001130
2021	0.021079	0.013600	0.004659	0.002450	0.001130
2022	0.021079	0.013600	0.004659	0.002450	0.001130
2023	0.021079	0.013600	0.004659	0.002450	0.001130
2024	0.021079	0.013600	0.004659	0.002450	0.001130
2025	0.021079	0.013600	0.004659	0.002450	0.001130
2026	0.021079	0.013600	0.004659	0.002450	0.001130
2027	0.021079	0.013600	0.004659	0.002450	0.001130
2028	0.021079	0.013600	0.004659	0.002450	0.001130
2029	0.021079	0.013600	0.004659	0.002450	0.001130
2030	0.021079	0.013600	0.004659	0.002450	0.001130

Analysis Year

2025	0.021079	0.013600	0.004659	0.002450	0.001130
------	----------	----------	----------	----------	----------

**TOG Emission Rate - gr/mi**

Speed (MPH)	Acceleration	0.339041821	
	Deceleration	0.0798885	
	15	0.112131	FROM EMFAC SHEET (TOG_GAS_RUNEX)
	65	0.135899	FROM EMFAC SHEET (TOG_GAS_RUNEX)

**Toxic Emission Rate - gr/mi**

	Acceleration	Deceleration	15	65
Benzene	0.007146663	0.00168397	0.002364	0.002865
Formaldehyde	0.004610969	0.001086484	0.001525	0.001848
1,3-Butadiene	0.001579596	0.000372201	0.000522	0.000633
Acetaldehyde	0.000830652	0.000195727	0.000275	0.000333
Acrolein	0.000383117	9.0274E-05	0.000127	0.000154

**Toxic Emission Rate - gr/mi**

Speed (MPH)	Acceleration	0.014550997
	Deceleration	0.003428655
	15	0.004812438
	65	0.005832513

Weight Fraction/Speciation

Benzene	0.491
Formaldehyde	0.317
1,3-Butadiene	0.461
Acetaldehyde	0.057
Acrolein	0.026

Source: TOG/toxic fraction from UC Davis-Caltrans Air Quality Project, *Estimating Mobile Source Air Toxic Emissions: A Step-by-Step Project Analysis Methodology*. Task Order No. 61

**Emission Factor Profile Worksheet**  
**Acute/8-hour Exposure**

TOG - Toxic Emissions

Diesel/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.020009	0.147133	0.001900	0.073526	0
2005	0.020009	0.147133	0.001900	0.073526	0
2006	0.020009	0.147133	0.001900	0.073526	0
2007	0.020009	0.147133	0.001900	0.073526	0
2008	0.020009	0.147133	0.001900	0.073526	0
2009	0.020009	0.147133	0.001900	0.073526	0
2010	0.020009	0.147133	0.001900	0.073526	0
2011	0.020009	0.147133	0.001900	0.073526	0
2012	0.020009	0.147133	0.001900	0.073526	0
2013	0.020009	0.147133	0.001900	0.073526	0
2014	0.020009	0.147133	0.001900	0.073526	0
2015	0.020009	0.147133	0.001900	0.073526	0
2016	0.020009	0.147133	0.001900	0.073526	0
2017	0.020009	0.147133	0.001900	0.073526	0
2018	0.020009	0.147133	0.001900	0.073526	0
2019	0.020009	0.147133	0.001900	0.073526	0
2020	0.020009	0.147133	0.001900	0.073526	0
2021	0.020009	0.147133	0.001900	0.073526	0
2022	0.020009	0.147133	0.001900	0.073526	0
2023	0.020009	0.147133	0.001900	0.073526	0
2024	0.020009	0.147133	0.001900	0.073526	0
2025	0.020009	0.147133	0.001900	0.073526	0
2026	0.020009	0.147133	0.001900	0.073526	0
2027	0.020009	0.147133	0.001900	0.073526	0
2028	0.020009	0.147133	0.001900	0.073526	0
2029	0.020009	0.147133	0.001900	0.073526	0
2030	0.020009	0.147133	0.001900	0.073526	0

Analysis Year

2025	0.020009	0.147133	0.001900	0.073526	0.0
------	----------	----------	----------	----------	-----

**TOG Emission Rate - gr/mi**

Speed (MPH)	Acceleration	0.001172645		
	Deceleration	0.00009195		
	15	8.03E-05	FROM EMFAC SHEET (TOG_DSL_RUNEX)	
	65	0.000776	FROM EMFAC SHEET (TOG_DSL_RUNEX)	

**Toxic Emission Rate - gr/mi**

	Acceleration	Deceleration	15	65
Benzene	2.34634E-05	1.83983E-06	1.607E-06	1.5527E-05
Formaldehyde	0.000172535	1.35289E-05	1.181E-05	0.000114175
1,3-Butadiene	2.22803E-06	1.74705E-07	1.526E-07	1.4744E-06
Acetaldehyde	8.62199E-05	6.76072E-06	5.904E-06	5.70562E-05
Acrolein	0	0	0	0

**Toxic Emission Rate - gr/mi**

Speed (MPH)	Acceleration	0.000284446
	Deceleration	2.23041E-05
	15	1.94782E-05
	65	0.000188233

Weight Fraction/Speciation

Benzene	0.082
Formaldehyde	0.607
1,3-Butadiene	0.008
Acetaldehyde	0.303
Acrolein	0



Cancer Ris 1.17E-05 FALSE  
0.00001

Reduced Risk

Risk Reduction - Cancer risk \* reduction potential

Filtration	%windows closed							
	1	0.75	0.5	0.25				
MERV 16	3.53E-06	5.57E-06	7.61E-06	9.64E-06	TRUE	TRUE	TRUE	TRUE
MERV 15	3.99E-06	5.91E-06	7.83E-06	9.76E-06	TRUE	TRUE	TRUE	TRUE
MERV 14	4.44E-06	6.25E-06	8.06E-06	9.87E-06	TRUE	TRUE	TRUE	TRUE

Reduction Assumptions:

1. Assumes 77% of day is spent indoors
- 2a. Sealed HVAC system with MERV 16 or higher rated filters (90% reduction on particulates less than 0.3 microns or larger), effectiveness.
- 2b. Sealed HVAC system with MERV 15 or higher rated filters (85% reduction on particulates less than 0.3 microns or larger), effectiveness.
- 2c. Sealed HVAC system with MERV 14 or higher rated filters (80% reduction on particulates less than 0.3 microns or larger), effectiveness.
3. Institute tiered vegetation along the perimeter of the Project area.

Reduction	Time Windows Closed			
	1	0.75	0.5	0.25
	0.775	0.58125	0.3875	0.19375
	0.9	0.9	0.9	0.9
	0.85	0.85	0.85	0.85
	0.8	0.8	0.8	0.8
N/A	N/A	N/A	N/A	NA
Total Percent Reduction 2a (1*2a)	0.6975	0.523125	0.34875	0.174375
Total Percent Reduction 2b (1*2b)	0.65875	0.494063	0.329375	0.164688
Total Percent Reduction 2c (1*2c)	0.62	0.465	0.31	0.155

**Attachment D**

---

**AERMOD Output (24-hour)**

\* AERMOD ( 19191): C:\Users\ckirikian\Documents\Long Beach River  
 Park\LBRiverParkMobile 04/22/21

\* AERMET ( 16216):  
 11:26:40

\* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ\_U\*  
 \* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL  
 \* FOR A TOTAL OF 103 RECEPTORS.  
 \* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

GRP	X RANK	Y NET ID	AVERAGE CONC DATE(CONC)	ZELEV	ZHILL	ZFLAG	AVE
	388656.20000	3742839.99000	0.01915	20.14	20.14	0.00	24-HR ALL
	1ST	15020724					
	388681.20000	3742839.99000	0.01889	20.47	20.47	0.00	24-HR ALL
	1ST	15020724					
	388606.20000	3742864.99000	0.02112	19.76	19.76	0.00	24-HR ALL
	1ST	15020724					
	388631.20000	3742864.99000	0.02037	20.08	20.08	0.00	24-HR ALL
	1ST	15020724					
	388656.20000	3742864.99000	0.01970	20.37	20.37	0.00	24-HR ALL
	1ST	15020724					
	388681.20000	3742864.99000	0.01901	20.64	20.64	0.00	24-HR ALL
	1ST	15020724					
	388556.20000	3742889.99000	0.02418	19.47	19.47	0.00	24-HR ALL
	1ST	15020724					
	388581.20000	3742889.99000	0.02243	19.69	19.69	0.00	24-HR ALL
	1ST	15020724					
	388606.20000	3742889.99000	0.02168	20.02	20.02	0.00	24-HR ALL
	1ST	15020724					
	388631.20000	3742889.99000	0.02070	20.35	20.35	0.00	24-HR ALL
	1ST	15020724					
	388656.20000	3742889.99000	0.01994	20.57	20.57	0.00	24-HR ALL
	1ST	15020724					
	388681.20000	3742889.99000	0.01932	20.75	20.75	0.00	24-HR ALL
	1ST	15020724					
	388556.20000	3742914.99000	0.02446	19.72	19.72	0.00	24-HR ALL
	1ST	15020724					
	388581.20000	3742914.99000	0.02300	19.96	19.96	0.00	24-HR ALL
	1ST	15020724					
	388606.20000	3742914.99000	0.02189	20.29	20.29	0.00	24-HR ALL
	1ST	15020724					
	388631.20000	3742914.99000	0.02102	20.62	20.62	0.00	24-HR ALL
	1ST	15020724					
	388656.20000	3742914.99000	0.02031	20.78	20.78	0.00	24-HR ALL
	1ST	15020724					
	388681.20000	3742914.99000	0.01971	20.87	20.87	0.00	24-HR ALL
	1ST	15020724					

388706.20000	3742914.99000	0.01920	20.97	20.97	0.00	24-HR	ALL
1ST	15020724						
388556.20000	3742939.99000	0.02459	19.97	19.97	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3742939.99000	0.02330	20.23	20.23	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3742939.99000	0.02228	20.56	20.56	0.00	24-HR	ALL
1ST	15020724						
388631.20000	3742939.99000	0.02145	20.88	20.88	0.00	24-HR	ALL
1ST	15020724						
388656.20000	3742939.99000	0.02076	20.99	20.99	0.00	24-HR	ALL
1ST	15020724						
388681.20000	3742939.99000	0.02017	20.99	20.99	0.00	24-HR	ALL
1ST	15020724						
388706.20000	3742939.99000	0.01967	21.00	21.00	0.00	24-HR	ALL
1ST	15020724						
388556.20000	3742964.99000	0.02496	20.24	20.24	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3742964.99000	0.02373	20.43	20.43	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3742964.99000	0.02274	20.68	20.68	0.00	24-HR	ALL
1ST	15020724						
388631.20000	3742964.99000	0.02192	20.92	20.92	0.00	24-HR	ALL
1ST	15020724						
388656.20000	3742964.99000	0.02125	21.06	21.06	0.00	24-HR	ALL
1ST	15020724						
388681.20000	3742964.99000	0.02068	21.14	21.14	0.00	24-HR	ALL
1ST	15020724						
388706.20000	3742964.99000	0.02038	21.23	21.23	0.00	24-HR	ALL
1ST	16112424						
388556.20000	3742989.99000	0.02544	20.51	20.51	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3742989.99000	0.02423	20.64	20.64	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3742989.99000	0.02325	20.79	20.79	0.00	24-HR	ALL
1ST	15020724						
388631.20000	3742989.99000	0.02245	20.95	20.95	0.00	24-HR	ALL
1ST	15020724						
388656.20000	3742989.99000	0.02179	21.11	21.11	0.00	24-HR	ALL
1ST	15020724						
388681.20000	3742989.99000	0.02127	21.29	21.29	0.00	24-HR	ALL
1ST	16112424						
388706.20000	3742989.99000	0.02116	21.46	21.46	0.00	24-HR	ALL
1ST	16112424						
388556.20000	3743014.99000	0.02599	20.78	20.78	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743014.99000	0.02479	20.84	20.84	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743014.99000	0.02381	20.91	20.91	0.00	24-HR	ALL
1ST	15020724						

388631.20000	3743014.99000	0.02302	20.98	20.98	0.00	24-HR	ALL
1ST	15020724						
388656.20000	3743014.99000	0.02238	21.17	21.17	0.00	24-HR	ALL
1ST	15020724						
388681.20000	3743014.99000	0.02210	21.43	21.43	0.00	24-HR	ALL
1ST	16112424						
388706.20000	3743014.99000	0.02200	21.69	21.69	0.00	24-HR	ALL
1ST	16112424						
388556.20000	3743039.99000	0.02659	21.05	21.05	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743039.99000	0.02539	21.06	21.06	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743039.99000	0.02443	21.06	21.06	0.00	24-HR	ALL
1ST	15020724						
388631.20000	3743039.99000	0.02365	21.06	21.06	0.00	24-HR	ALL
1ST	15020724						
388656.20000	3743039.99000	0.02313	21.28	21.28	0.00	24-HR	ALL
1ST	16112424						
388681.20000	3743039.99000	0.02300	21.60	21.60	0.00	24-HR	ALL
1ST	16112424						
388706.20000	3743039.99000	0.02291	21.93	21.93	0.00	24-HR	ALL
1ST	16112424						
388556.20000	3743064.99000	0.02723	21.33	21.33	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743064.99000	0.02605	21.33	21.33	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743064.99000	0.02511	21.33	21.33	0.00	24-HR	ALL
1ST	15020724						
388631.20000	3743064.99000	0.02438	21.33	21.33	0.00	24-HR	ALL
1ST	15020724						
388656.20000	3743064.99000	0.02410	21.54	21.54	0.00	24-HR	ALL
1ST	16112424						
388681.20000	3743064.99000	0.02399	21.87	21.87	0.00	24-HR	ALL
1ST	16112424						
388706.20000	3743064.99000	0.02391	22.20	22.20	0.00	24-HR	ALL
1ST	16112424						
388556.20000	3743089.99000	0.02794	21.60	21.60	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743089.99000	0.02679	21.60	21.60	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743089.99000	0.02590	21.60	21.60	0.00	24-HR	ALL
1ST	15020724						
388631.20000	3743089.99000	0.02532	21.61	21.61	0.00	24-HR	ALL
1ST	16112424						
388656.20000	3743089.99000	0.02517	21.81	21.81	0.00	24-HR	ALL
1ST	16112424						
388681.20000	3743089.99000	0.02507	22.14	22.14	0.00	24-HR	ALL
1ST	16112424						
388706.20000	3743089.99000	0.02501	22.46	22.46	0.00	24-HR	ALL
1ST	16112424						

388556.20000	3743114.99000	0.02874	21.87	21.87	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743114.99000	0.02764	21.87	21.87	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743114.99000	0.02681	21.87	21.87	0.00	24-HR	ALL
1ST	15020724						
388631.20000	3743114.99000	0.02647	21.88	21.88	0.00	24-HR	ALL
1ST	16112424						
388656.20000	3743114.99000	0.02633	22.08	22.08	0.00	24-HR	ALL
1ST	16112424						
388681.20000	3743114.99000	0.02625	22.40	22.40	0.00	24-HR	ALL
1ST	16112424						
388706.20000	3743114.99000	0.02622	22.73	22.73	0.00	24-HR	ALL
1ST	16112424						
388556.20000	3743139.99000	0.02967	22.14	22.14	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743139.99000	0.02864	22.14	22.14	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743139.99000	0.02792	22.14	22.14	0.00	24-HR	ALL
1ST	16112424						
388631.20000	3743139.99000	0.02773	22.15	22.15	0.00	24-HR	ALL
1ST	16112424						
388656.20000	3743139.99000	0.02761	22.34	22.34	0.00	24-HR	ALL
1ST	16112424						
388681.20000	3743139.99000	0.02755	22.67	22.67	0.00	24-HR	ALL
1ST	16112424						
388706.20000	3743139.99000	0.02757	23.00	23.00	0.00	24-HR	ALL
1ST	16112424						
388556.20000	3743164.99000	0.03076	22.41	22.41	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743164.99000	0.02982	22.41	22.41	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743164.99000	0.02928	22.41	22.41	0.00	24-HR	ALL
1ST	16112424						
388631.20000	3743164.99000	0.02911	22.42	22.42	0.00	24-HR	ALL
1ST	16112424						
388656.20000	3743164.99000	0.02902	22.61	22.61	0.00	24-HR	ALL
1ST	16112424						
388681.20000	3743164.99000	0.02907	22.94	22.94	0.00	24-HR	ALL
1ST	13121424						
388706.20000	3743164.99000	0.02929	23.27	23.27	0.00	24-HR	ALL
1ST	13121424						
388556.20000	3743189.99000	0.03206	22.68	22.68	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743189.99000	0.03123	22.68	22.68	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743189.99000	0.03078	22.68	22.68	0.00	24-HR	ALL
1ST	16112424						
388631.20000	3743189.99000	0.03066	22.69	22.69	0.00	24-HR	ALL
1ST	13121424						

388656.20000	3743189.99000	0.03077	22.88	22.88	0.00	24-HR	ALL
1ST	13121424						
388681.20000	3743189.99000	0.03099	23.20	23.20	0.00	24-HR	ALL
1ST	13121424						
388706.20000	3743189.99000	0.03133	23.53	23.53	0.00	24-HR	ALL
1ST	13121424						
388556.20000	3743214.99000	0.03358	22.95	22.95	0.00	24-HR	ALL
1ST	15020724						
388581.20000	3743214.99000	0.03287	22.95	22.95	0.00	24-HR	ALL
1ST	15020724						
388606.20000	3743214.99000	0.03256	22.95	22.95	0.00	24-HR	ALL
1ST	13121424						
388631.20000	3743214.99000	0.03264	22.96	22.96	0.00	24-HR	ALL
1ST	13121424						
388656.20000	3743214.99000	0.03285	23.14	23.14	0.00	24-HR	ALL
1ST	13121424						
388681.20000	3743214.99000	0.03320	23.47	23.47	0.00	24-HR	ALL
1ST	13121424						
388706.20000	3743214.99000	0.03372	23.80	23.80	0.00	24-HR	ALL
1ST	13121424						

\*\* CONCUNIT ug/m^3

\*\* DEPUNIT g/m^2





\* AERMOD ( 19191): C:\Users\ckirikian\Documents\Long Beach River  
 Park\LBRiverParkMobile 04/22/21

\* AERMET ( 16216):  
 11:26:40

\* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ\_U\*  
 \* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP:  
 ALL  
 \* FOR A TOTAL OF 103 RECEPTORS.  
 \* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

* GRP	X NUM YRS	Y NET ID	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	
	388656.20000	3742839.99000	0.00982	20.14	20.14	0.00	ANNUAL	ALL
	00000005							
	388681.20000	3742839.99000	0.00994	20.47	20.47	0.00	ANNUAL	ALL
	00000005							
	388606.20000	3742864.99000	0.01090	19.76	19.76	0.00	ANNUAL	ALL
	00000005							
	388631.20000	3742864.99000	0.01062	20.08	20.08	0.00	ANNUAL	ALL
	00000005							
	388656.20000	3742864.99000	0.01033	20.37	20.37	0.00	ANNUAL	ALL
	00000005							
	388681.20000	3742864.99000	0.00986	20.64	20.64	0.00	ANNUAL	ALL
	00000005							
	388556.20000	3742889.99000	0.01267	19.47	19.47	0.00	ANNUAL	ALL
	00000005							
	388581.20000	3742889.99000	0.01162	19.69	19.69	0.00	ANNUAL	ALL
	00000005							
	388606.20000	3742889.99000	0.01146	20.02	20.02	0.00	ANNUAL	ALL
	00000005							
	388631.20000	3742889.99000	0.01084	20.35	20.35	0.00	ANNUAL	ALL
	00000005							
	388656.20000	3742889.99000	0.01037	20.57	20.57	0.00	ANNUAL	ALL
	00000005							
	388681.20000	3742889.99000	0.00999	20.75	20.75	0.00	ANNUAL	ALL
	00000005							
	388556.20000	3742914.99000	0.01299	19.72	19.72	0.00	ANNUAL	ALL
	00000005							
	388581.20000	3742914.99000	0.01213	19.96	19.96	0.00	ANNUAL	ALL
	00000005							
	388606.20000	3742914.99000	0.01148	20.29	20.29	0.00	ANNUAL	ALL
	00000005							
	388631.20000	3742914.99000	0.01097	20.62	20.62	0.00	ANNUAL	ALL
	00000005							
	388656.20000	3742914.99000	0.01055	20.78	20.78	0.00	ANNUAL	ALL
	00000005							
	388681.20000	3742914.99000	0.01020	20.87	20.87	0.00	ANNUAL	ALL

00000005								
388706.20000	3742914.99000	0.00991	20.97	20.97	0.00	ANNUAL	ALL	
00000005								
388556.20000	3742939.99000	0.01296	19.97	19.97	0.00	ANNUAL	ALL	
00000005								
388581.20000	3742939.99000	0.01224	20.23	20.23	0.00	ANNUAL	ALL	
00000005								
388606.20000	3742939.99000	0.01166	20.56	20.56	0.00	ANNUAL	ALL	
00000005								
388631.20000	3742939.99000	0.01119	20.88	20.88	0.00	ANNUAL	ALL	
00000005								
388656.20000	3742939.99000	0.01080	20.99	20.99	0.00	ANNUAL	ALL	
00000005								
388681.20000	3742939.99000	0.01047	20.99	20.99	0.00	ANNUAL	ALL	
00000005								
388706.20000	3742939.99000	0.01020	21.00	21.00	0.00	ANNUAL	ALL	
00000005								
388556.20000	3742964.99000	0.01314	20.24	20.24	0.00	ANNUAL	ALL	
00000005								
388581.20000	3742964.99000	0.01247	20.43	20.43	0.00	ANNUAL	ALL	
00000005								
388606.20000	3742964.99000	0.01193	20.68	20.68	0.00	ANNUAL	ALL	
00000005								
388631.20000	3742964.99000	0.01148	20.92	20.92	0.00	ANNUAL	ALL	
00000005								
388656.20000	3742964.99000	0.01110	21.06	21.06	0.00	ANNUAL	ALL	
00000005								
388681.20000	3742964.99000	0.01080	21.14	21.14	0.00	ANNUAL	ALL	
00000005								
388706.20000	3742964.99000	0.01054	21.23	21.23	0.00	ANNUAL	ALL	
00000005								
388556.20000	3742989.99000	0.01341	20.51	20.51	0.00	ANNUAL	ALL	
00000005								
388581.20000	3742989.99000	0.01277	20.64	20.64	0.00	ANNUAL	ALL	
00000005								
388606.20000	3742989.99000	0.01224	20.79	20.79	0.00	ANNUAL	ALL	
00000005								
388631.20000	3742989.99000	0.01181	20.95	20.95	0.00	ANNUAL	ALL	
00000005								
388656.20000	3742989.99000	0.01146	21.11	21.11	0.00	ANNUAL	ALL	
00000005								
388681.20000	3742989.99000	0.01117	21.29	21.29	0.00	ANNUAL	ALL	
00000005								
388706.20000	3742989.99000	0.01093	21.46	21.46	0.00	ANNUAL	ALL	
00000005								
388556.20000	3743014.99000	0.01374	20.78	20.78	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743014.99000	0.01312	20.84	20.84	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743014.99000	0.01261	20.91	20.91	0.00	ANNUAL	ALL	

00000005								
388631.20000	3743014.99000	0.01220	20.98	20.98	0.00	ANNUAL	ALL	
00000005								
388656.20000	3743014.99000	0.01187	21.17	21.17	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743014.99000	0.01160	21.43	21.43	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743014.99000	0.01139	21.69	21.69	0.00	ANNUAL	ALL	
00000005								
388556.20000	3743039.99000	0.01413	21.05	21.05	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743039.99000	0.01352	21.06	21.06	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743039.99000	0.01303	21.06	21.06	0.00	ANNUAL	ALL	
00000005								
388631.20000	3743039.99000	0.01264	21.06	21.06	0.00	ANNUAL	ALL	
00000005								
388656.20000	3743039.99000	0.01233	21.28	21.28	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743039.99000	0.01209	21.60	21.60	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743039.99000	0.01191	21.93	21.93	0.00	ANNUAL	ALL	
00000005								
388556.20000	3743064.99000	0.01456	21.33	21.33	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743064.99000	0.01397	21.33	21.33	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743064.99000	0.01351	21.33	21.33	0.00	ANNUAL	ALL	
00000005								
388631.20000	3743064.99000	0.01315	21.33	21.33	0.00	ANNUAL	ALL	
00000005								
388656.20000	3743064.99000	0.01287	21.54	21.54	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743064.99000	0.01266	21.87	21.87	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743064.99000	0.01251	22.20	22.20	0.00	ANNUAL	ALL	
00000005								
388556.20000	3743089.99000	0.01505	21.60	21.60	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743089.99000	0.01449	21.60	21.60	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743089.99000	0.01406	21.60	21.60	0.00	ANNUAL	ALL	
00000005								
388631.20000	3743089.99000	0.01373	21.61	21.61	0.00	ANNUAL	ALL	
00000005								
388656.20000	3743089.99000	0.01348	21.81	21.81	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743089.99000	0.01331	22.14	22.14	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743089.99000	0.01319	22.46	22.46	0.00	ANNUAL	ALL	

00000005								
388556.20000	3743114.99000	0.01560	21.87	21.87	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743114.99000	0.01508	21.87	21.87	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743114.99000	0.01468	21.87	21.87	0.00	ANNUAL	ALL	
00000005								
388631.20000	3743114.99000	0.01439	21.88	21.88	0.00	ANNUAL	ALL	
00000005								
388656.20000	3743114.99000	0.01418	22.08	22.08	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743114.99000	0.01405	22.40	22.40	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743114.99000	0.01398	22.73	22.73	0.00	ANNUAL	ALL	
00000005								
388556.20000	3743139.99000	0.01624	22.14	22.14	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743139.99000	0.01575	22.14	22.14	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743139.99000	0.01539	22.14	22.14	0.00	ANNUAL	ALL	
00000005								
388631.20000	3743139.99000	0.01514	22.15	22.15	0.00	ANNUAL	ALL	
00000005								
388656.20000	3743139.99000	0.01498	22.34	22.34	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743139.99000	0.01490	22.67	22.67	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743139.99000	0.01489	23.00	23.00	0.00	ANNUAL	ALL	
00000005								
388556.20000	3743164.99000	0.01696	22.41	22.41	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743164.99000	0.01652	22.41	22.41	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743164.99000	0.01621	22.41	22.41	0.00	ANNUAL	ALL	
00000005								
388631.20000	3743164.99000	0.01600	22.42	22.42	0.00	ANNUAL	ALL	
00000005								
388656.20000	3743164.99000	0.01590	22.61	22.61	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743164.99000	0.01588	22.94	22.94	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743164.99000	0.01595	23.27	23.27	0.00	ANNUAL	ALL	
00000005								
388556.20000	3743189.99000	0.01779	22.68	22.68	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743189.99000	0.01740	22.68	22.68	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743189.99000	0.01714	22.68	22.68	0.00	ANNUAL	ALL	
00000005								
388631.20000	3743189.99000	0.01700	22.69	22.69	0.00	ANNUAL	ALL	

00000005								
388656.20000	3743189.99000	0.01696	22.88	22.88	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743189.99000	0.01703	23.20	23.20	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743189.99000	0.01719	23.53	23.53	0.00	ANNUAL	ALL	
00000005								
388556.20000	3743214.99000	0.01874	22.95	22.95	0.00	ANNUAL	ALL	
00000005								
388581.20000	3743214.99000	0.01840	22.95	22.95	0.00	ANNUAL	ALL	
00000005								
388606.20000	3743214.99000	0.01821	22.95	22.95	0.00	ANNUAL	ALL	
00000005								
388631.20000	3743214.99000	0.01814	22.96	22.96	0.00	ANNUAL	ALL	
00000005								
388656.20000	3743214.99000	0.01820	23.14	23.14	0.00	ANNUAL	ALL	
00000005								
388681.20000	3743214.99000	0.01838	23.47	23.47	0.00	ANNUAL	ALL	
00000005								
388706.20000	3743214.99000	0.01868	23.80	23.80	0.00	ANNUAL	ALL	
00000005								

\*\* CONCUNIT ug/m^3

\*\* DEPUNIT g/m^2



**IV.B.3**

**Cancer Risk Assessment Data**









```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 12/1/2021
** File: C:\Users\ckirikian\Documents\Long Beach River
Park\ConstructionHRA\ConstructionHRA.ADI
**
```

```
*****
**
```

```
*****
** AERMOD Control Pathway
*****
**
```

```
CO STARTING
  TITLEONE C:\Users\ckirikian\Documents\Long Beach River
Park\ConstructionHRA\C
  MODELOPT DFAULT CONC
  AVERTIME 1 8 24 ANNUAL
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL ConstructionHRA.err
```

```
CO FINISHED
**
*****
```

```
** AERMOD Source Pathway
*****
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Haul Truck Route
** PREFIX
** Length of Side = 3.00
** Configuration = Separated
** Emission Rate = 3.1094E-06
** Vertical Dimension = 3.00
** SZINIT = 1.40
** Nodes = 6
** 388545.070, 3743204.034, 22.92, 0.00, 2.78
** 388669.934, 3743201.279, 23.03, 0.00, 2.78
** 388653.408, 3742800.064, 19.11, 0.00, 2.78
** 388528.544, 3742879.022, 19.41, 0.00, 2.78
** 388433.979, 3742945.126, 20.00, 0.00, 2.78
** 388357.775, 3742999.295, 20.00, 0.00, 2.78
```

\*\*

-----

LOCATION	L0000001	VOLUME	388546.570	3743204.001	22.83
LOCATION	L0000002	VOLUME	388552.555	3743203.869	22.83
LOCATION	L0000003	VOLUME	388558.541	3743203.737	22.83
LOCATION	L0000004	VOLUME	388564.526	3743203.605	22.83
LOCATION	L0000005	VOLUME	388570.511	3743203.472	22.83
LOCATION	L0000006	VOLUME	388576.497	3743203.340	22.82
LOCATION	L0000007	VOLUME	388582.482	3743203.208	22.82
LOCATION	L0000008	VOLUME	388588.467	3743203.076	22.82
LOCATION	L0000009	VOLUME	388594.452	3743202.944	22.82
LOCATION	L0000010	VOLUME	388600.438	3743202.812	22.82
LOCATION	L0000011	VOLUME	388606.423	3743202.680	22.82
LOCATION	L0000012	VOLUME	388612.408	3743202.548	22.82
LOCATION	L0000013	VOLUME	388618.394	3743202.416	22.82
LOCATION	L0000014	VOLUME	388624.379	3743202.284	22.82
LOCATION	L0000015	VOLUME	388630.364	3743202.152	22.82
LOCATION	L0000016	VOLUME	388636.350	3743202.020	22.82
LOCATION	L0000017	VOLUME	388642.335	3743201.888	22.82
LOCATION	L0000018	VOLUME	388648.320	3743201.756	22.90
LOCATION	L0000019	VOLUME	388654.306	3743201.624	22.98
LOCATION	L0000020	VOLUME	388660.291	3743201.492	23.05
LOCATION	L0000021	VOLUME	388666.276	3743201.360	23.13
LOCATION	L0000022	VOLUME	388669.838	3743198.953	23.15
LOCATION	L0000023	VOLUME	388669.591	3743192.971	23.08
LOCATION	L0000024	VOLUME	388669.345	3743186.989	23.02
LOCATION	L0000025	VOLUME	388669.099	3743181.008	22.95
LOCATION	L0000026	VOLUME	388668.852	3743175.026	22.88
LOCATION	L0000027	VOLUME	388668.606	3743169.044	22.82
LOCATION	L0000028	VOLUME	388668.359	3743163.062	22.75
LOCATION	L0000029	VOLUME	388668.113	3743157.081	22.68
LOCATION	L0000030	VOLUME	388667.867	3743151.099	22.62
LOCATION	L0000031	VOLUME	388667.620	3743145.117	22.55
LOCATION	L0000032	VOLUME	388667.374	3743139.136	22.48
LOCATION	L0000033	VOLUME	388667.128	3743133.154	22.41
LOCATION	L0000034	VOLUME	388666.881	3743127.172	22.35
LOCATION	L0000035	VOLUME	388666.635	3743121.191	22.28
LOCATION	L0000036	VOLUME	388666.388	3743115.209	22.21
LOCATION	L0000037	VOLUME	388666.142	3743109.227	22.15
LOCATION	L0000038	VOLUME	388665.896	3743103.245	22.08
LOCATION	L0000039	VOLUME	388665.649	3743097.264	22.01
LOCATION	L0000040	VOLUME	388665.403	3743091.282	21.94
LOCATION	L0000041	VOLUME	388665.156	3743085.300	21.88
LOCATION	L0000042	VOLUME	388664.910	3743079.319	21.81
LOCATION	L0000043	VOLUME	388664.664	3743073.337	21.74
LOCATION	L0000044	VOLUME	388664.417	3743067.355	21.68
LOCATION	L0000045	VOLUME	388664.171	3743061.374	21.61
LOCATION	L0000046	VOLUME	388663.924	3743055.392	21.54
LOCATION	L0000047	VOLUME	388663.678	3743049.410	21.48
LOCATION	L0000048	VOLUME	388663.432	3743043.428	21.41
LOCATION	L0000049	VOLUME	388663.185	3743037.447	21.34
LOCATION	L0000050	VOLUME	388662.939	3743031.465	21.29
LOCATION	L0000051	VOLUME	388662.693	3743025.483	21.27
LOCATION	L0000052	VOLUME	388662.446	3743019.502	21.25

LOCATION	L0000053	VOLUME	388662.200	3743013.520	21.23
LOCATION	L0000054	VOLUME	388661.953	3743007.538	21.21
LOCATION	L0000055	VOLUME	388661.707	3743001.556	21.19
LOCATION	L0000056	VOLUME	388661.461	3742995.575	21.17
LOCATION	L0000057	VOLUME	388661.214	3742989.593	21.15
LOCATION	L0000058	VOLUME	388660.968	3742983.611	21.13
LOCATION	L0000059	VOLUME	388660.721	3742977.630	21.11
LOCATION	L0000060	VOLUME	388660.475	3742971.648	21.09
LOCATION	L0000061	VOLUME	388660.229	3742965.666	21.07
LOCATION	L0000062	VOLUME	388659.982	3742959.685	21.05
LOCATION	L0000063	VOLUME	388659.736	3742953.703	21.04
LOCATION	L0000064	VOLUME	388659.490	3742947.721	21.02
LOCATION	L0000065	VOLUME	388659.243	3742941.739	21.00
LOCATION	L0000066	VOLUME	388658.997	3742935.758	20.96
LOCATION	L0000067	VOLUME	388658.750	3742929.776	20.91
LOCATION	L0000068	VOLUME	388658.504	3742923.794	20.86
LOCATION	L0000069	VOLUME	388658.258	3742917.813	20.81
LOCATION	L0000070	VOLUME	388658.011	3742911.831	20.76
LOCATION	L0000071	VOLUME	388657.765	3742905.849	20.71
LOCATION	L0000072	VOLUME	388657.518	3742899.868	20.66
LOCATION	L0000073	VOLUME	388657.272	3742893.886	20.61
LOCATION	L0000074	VOLUME	388657.026	3742887.904	20.56
LOCATION	L0000075	VOLUME	388656.779	3742881.922	20.51
LOCATION	L0000076	VOLUME	388656.533	3742875.941	20.46
LOCATION	L0000077	VOLUME	388656.287	3742869.959	20.41
LOCATION	L0000078	VOLUME	388656.040	3742863.977	20.36
LOCATION	L0000079	VOLUME	388655.794	3742857.996	20.31
LOCATION	L0000080	VOLUME	388655.547	3742852.014	20.26
LOCATION	L0000081	VOLUME	388655.301	3742846.032	20.20
LOCATION	L0000082	VOLUME	388655.055	3742840.050	20.13
LOCATION	L0000083	VOLUME	388654.808	3742834.069	20.06
LOCATION	L0000084	VOLUME	388654.562	3742828.087	19.99
LOCATION	L0000085	VOLUME	388654.315	3742822.105	19.93
LOCATION	L0000086	VOLUME	388654.069	3742816.124	19.86
LOCATION	L0000087	VOLUME	388653.823	3742810.142	19.79
LOCATION	L0000088	VOLUME	388653.576	3742804.160	19.73
LOCATION	L0000089	VOLUME	388651.812	3742801.073	19.67
LOCATION	L0000090	VOLUME	388646.752	3742804.273	19.64
LOCATION	L0000091	VOLUME	388641.692	3742807.472	19.61
LOCATION	L0000092	VOLUME	388636.632	3742810.672	19.58
LOCATION	L0000093	VOLUME	388631.572	3742813.872	19.57
LOCATION	L0000094	VOLUME	388626.513	3742817.071	19.56
LOCATION	L0000095	VOLUME	388621.453	3742820.271	19.54
LOCATION	L0000096	VOLUME	388616.393	3742823.471	19.52
LOCATION	L0000097	VOLUME	388611.333	3742826.671	19.50
LOCATION	L0000098	VOLUME	388606.273	3742829.870	19.47
LOCATION	L0000099	VOLUME	388601.213	3742833.070	19.43
LOCATION	L0000100	VOLUME	388596.153	3742836.270	19.40
LOCATION	L0000101	VOLUME	388591.093	3742839.469	19.35
LOCATION	L0000102	VOLUME	388586.033	3742842.669	19.30
LOCATION	L0000103	VOLUME	388580.973	3742845.869	19.25
LOCATION	L0000104	VOLUME	388575.913	3742849.068	19.20
LOCATION	L0000105	VOLUME	388570.853	3742852.268	19.16

LOCATION	L0000106	VOLUME	388565.793	3742855.468	19.12
LOCATION	L0000107	VOLUME	388560.733	3742858.667	19.09
LOCATION	L0000108	VOLUME	388555.673	3742861.867	19.19
LOCATION	L0000109	VOLUME	388550.613	3742865.067	19.27
LOCATION	L0000110	VOLUME	388545.553	3742868.267	19.35
LOCATION	L0000111	VOLUME	388540.493	3742871.466	19.43
LOCATION	L0000112	VOLUME	388535.433	3742874.666	19.51
LOCATION	L0000113	VOLUME	388530.373	3742877.866	19.58
LOCATION	L0000114	VOLUME	388525.411	3742881.212	19.64
LOCATION	L0000115	VOLUME	388520.504	3742884.642	19.70
LOCATION	L0000116	VOLUME	388515.597	3742888.072	19.76
LOCATION	L0000117	VOLUME	388510.690	3742891.502	19.81
LOCATION	L0000118	VOLUME	388505.784	3742894.932	19.85
LOCATION	L0000119	VOLUME	388500.877	3742898.362	19.89
LOCATION	L0000120	VOLUME	388495.970	3742901.792	19.93
LOCATION	L0000121	VOLUME	388491.063	3742905.222	19.96
LOCATION	L0000122	VOLUME	388486.156	3742908.652	19.99
LOCATION	L0000123	VOLUME	388481.250	3742912.082	20.00
LOCATION	L0000124	VOLUME	388476.343	3742915.512	20.00
LOCATION	L0000125	VOLUME	388471.436	3742918.942	20.00
LOCATION	L0000126	VOLUME	388466.529	3742922.372	20.00
LOCATION	L0000127	VOLUME	388461.622	3742925.802	20.00
LOCATION	L0000128	VOLUME	388456.716	3742929.232	20.00
LOCATION	L0000129	VOLUME	388451.809	3742932.662	20.00
LOCATION	L0000130	VOLUME	388446.902	3742936.092	20.00
LOCATION	L0000131	VOLUME	388441.995	3742939.522	20.00
LOCATION	L0000132	VOLUME	388437.088	3742942.952	20.00
LOCATION	L0000133	VOLUME	388432.192	3742946.396	20.01
LOCATION	L0000134	VOLUME	388427.312	3742949.865	20.02
LOCATION	L0000135	VOLUME	388422.432	3742953.334	20.02
LOCATION	L0000136	VOLUME	388417.553	3742956.802	20.02
LOCATION	L0000137	VOLUME	388412.673	3742960.271	20.01
LOCATION	L0000138	VOLUME	388407.794	3742963.739	20.00
LOCATION	L0000139	VOLUME	388402.914	3742967.208	20.00
LOCATION	L0000140	VOLUME	388398.035	3742970.677	20.00
LOCATION	L0000141	VOLUME	388393.155	3742974.145	20.00
LOCATION	L0000142	VOLUME	388388.275	3742977.614	20.00
LOCATION	L0000143	VOLUME	388383.396	3742981.083	20.00
LOCATION	L0000144	VOLUME	388378.516	3742984.551	20.00
LOCATION	L0000145	VOLUME	388373.637	3742988.020	20.00
LOCATION	L0000146	VOLUME	388368.757	3742991.488	20.00
LOCATION	L0000147	VOLUME	388363.878	3742994.957	20.00
LOCATION	L0000148	VOLUME	388358.998	3742998.426	20.00

\*\* End of LINE VOLUME Source ID = SLINE1

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE1

SRCPARAM	L0000001	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000002	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000003	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000004	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000005	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000006	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000007	0.00000002101	0.00	2.78	1.40





SRCPARAM	L0000114	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000115	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000116	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000117	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000118	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000119	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000120	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000121	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000122	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000123	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000124	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000125	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000126	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000127	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000128	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000129	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000130	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000131	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000132	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000133	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000134	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000135	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000136	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000137	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000138	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000139	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000140	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000141	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000142	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000143	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000144	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000145	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000146	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000147	0.00000002101	0.00	2.78	1.40
SRCPARAM	L0000148	0.00000002101	0.00	2.78	1.40

\*\*

\*\* Variable Emissions Type: "By Hour-of-Day (HROFDY)"

\*\* Variable Emission Scenario: "Scenario 1"

EMISFACT	L0000001	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000001	HROFDY	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000001	HROFDY	1.0	1.0	1.0	0.0	0.0	0.0
EMISFACT	L0000001	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000002	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000002	HROFDY	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000002	HROFDY	1.0	1.0	1.0	0.0	0.0	0.0
EMISFACT	L0000002	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000003	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000003	HROFDY	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000003	HROFDY	1.0	1.0	1.0	0.0	0.0	0.0
EMISFACT	L0000003	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000004	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000004	HROFDY	0.0	0.0	1.0	1.0	1.0	1.0



























\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED ConstructionHRA.rou

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE

..\LBRiverParkMobileHRA\LongBeachAirportADJU\KLGB\_V9\_ADJU\KLGB\_v9.SFC  
PROFFILE

..\LBRiverParkMobileHRA\LongBeachAirportADJU\KLGB\_V9\_ADJU\KLGB\_v9.PFL  
SURFDATA 23129 2012 KLGB 33.81 -118.15

UAIRDATA 3190 2012

PROFBASE 10.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

RECTABLE 8 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST ConstructionHRA.AD\01H1GALL.PLT 31

PLOTFILE 8 ALL 1ST ConstructionHRA.AD\08H1GALL.PLT 32

PLOTFILE 24 ALL 1ST ConstructionHRA.AD\24H1GALL.PLT 33

PLOTFILE ANNUAL ALL ConstructionHRA.AD\AN00GALL.PLT 34

SUMMFILE ConstructionHRA.sum

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)

A Total of 2 Warning Message(s)

A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 971 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold  
used 0.50  
ME W187 971 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in  
AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
\*\*\* 14:36:04

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS

SUMMARY \*\*\*

-----  
-----

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses RURAL Dispersion Only.

\*\*Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: DPM

\*\*Model Calculates 3 Short Term Average(s) of: 1-HR 8-HR 24-HR  
and Calculates ANNUAL Averages

\*\*This Run Includes: 148 Source(s); 1 Source Group(s); and 191 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 148 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0  
line(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor  
Model Outputs Tables of Highest Short Term Values by Receptor  
(RECTABLE Keyword)  
Model Outputs External File(s) of High Values for Plotting  
(PLOTFILE Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm  
Hours

Missing Hours m for

Calm and Missing Hours b for Both

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ;  
Decay Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: ConstructionHRA.err

\*\*File for Summary of Results: ConstructionHRA.sum

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21

\*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:36:04

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	INIT.	NUMBER URBAN	EMISSION RATE			BASE	RELEASE	
SOURCE	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR VARY				(METERS)	(METERS)	
ID	CATS.			(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)	(METERS)	BY						
L0000001	0	0.21010E-07	388546.6	3743204.0		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000002	0	0.21010E-07	388552.6	3743203.9		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000003	0	0.21010E-07	388558.5	3743203.7		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000004	0	0.21010E-07	388564.5	3743203.6		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000005	0	0.21010E-07	388570.5	3743203.5		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000006	0	0.21010E-07	388576.5	3743203.3		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000007	0	0.21010E-07	388582.5	3743203.2		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000008	0	0.21010E-07	388588.5	3743203.1		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000009	0	0.21010E-07	388594.5	3743202.9		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000010	0	0.21010E-07	388600.4	3743202.8		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000011	0	0.21010E-07	388606.4	3743202.7		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000012	0	0.21010E-07	388612.4	3743202.5		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000013	0	0.21010E-07	388618.4	3743202.4		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000014	0	0.21010E-07	388624.4	3743202.3		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000015	0	0.21010E-07	388630.4	3743202.2		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000016	0	0.21010E-07	388636.3	3743202.0		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000017	0	0.21010E-07	388642.3	3743201.9		22.8	0.00	
2.78	1.40	NO	HROFDY					
L0000018	0	0.21010E-07	388648.3	3743201.8		22.9	0.00	

2.78	1.40	NO	HROFDY				
L0000019		0	0.21010E-07	388654.3	3743201.6	23.0	0.00
2.78	1.40	NO	HROFDY				
L0000020		0	0.21010E-07	388660.3	3743201.5	23.1	0.00
2.78	1.40	NO	HROFDY				
L0000021		0	0.21010E-07	388666.3	3743201.4	23.1	0.00
2.78	1.40	NO	HROFDY				
L0000022		0	0.21010E-07	388669.8	3743199.0	23.2	0.00
2.78	1.40	NO	HROFDY				
L0000023		0	0.21010E-07	388669.6	3743193.0	23.1	0.00
2.78	1.40	NO	HROFDY				
L0000024		0	0.21010E-07	388669.3	3743187.0	23.0	0.00
2.78	1.40	NO	HROFDY				
L0000025		0	0.21010E-07	388669.1	3743181.0	22.9	0.00
2.78	1.40	NO	HROFDY				
L0000026		0	0.21010E-07	388668.9	3743175.0	22.9	0.00
2.78	1.40	NO	HROFDY				
L0000027		0	0.21010E-07	388668.6	3743169.0	22.8	0.00
2.78	1.40	NO	HROFDY				
L0000028		0	0.21010E-07	388668.4	3743163.1	22.8	0.00
2.78	1.40	NO	HROFDY				
L0000029		0	0.21010E-07	388668.1	3743157.1	22.7	0.00
2.78	1.40	NO	HROFDY				
L0000030		0	0.21010E-07	388667.9	3743151.1	22.6	0.00
2.78	1.40	NO	HROFDY				
L0000031		0	0.21010E-07	388667.6	3743145.1	22.6	0.00
2.78	1.40	NO	HROFDY				
L0000032		0	0.21010E-07	388667.4	3743139.1	22.5	0.00
2.78	1.40	NO	HROFDY				
L0000033		0	0.21010E-07	388667.1	3743133.2	22.4	0.00
2.78	1.40	NO	HROFDY				
L0000034		0	0.21010E-07	388666.9	3743127.2	22.4	0.00
2.78	1.40	NO	HROFDY				
L0000035		0	0.21010E-07	388666.6	3743121.2	22.3	0.00
2.78	1.40	NO	HROFDY				
L0000036		0	0.21010E-07	388666.4	3743115.2	22.2	0.00
2.78	1.40	NO	HROFDY				
L0000037		0	0.21010E-07	388666.1	3743109.2	22.2	0.00
2.78	1.40	NO	HROFDY				
L0000038		0	0.21010E-07	388665.9	3743103.2	22.1	0.00
2.78	1.40	NO	HROFDY				
L0000039		0	0.21010E-07	388665.6	3743097.3	22.0	0.00
2.78	1.40	NO	HROFDY				
L0000040		0	0.21010E-07	388665.4	3743091.3	21.9	0.00

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*                      12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*                      14:36:04

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	INIT.	NUMBER URBAN	EMISSION RATE			BASE	RELEASE	
SOURCE	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY			(METERS)	(METERS)	
ID	CATS.		BY	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)	(METERS)							
L0000041		0	0.21010E-07	388665.2	3743085.3	21.9	0.00	
2.78	1.40	NO	HROFDY					
L0000042		0	0.21010E-07	388664.9	3743079.3	21.8	0.00	
2.78	1.40	NO	HROFDY					
L0000043		0	0.21010E-07	388664.7	3743073.3	21.7	0.00	
2.78	1.40	NO	HROFDY					
L0000044		0	0.21010E-07	388664.4	3743067.4	21.7	0.00	
2.78	1.40	NO	HROFDY					
L0000045		0	0.21010E-07	388664.2	3743061.4	21.6	0.00	
2.78	1.40	NO	HROFDY					
L0000046		0	0.21010E-07	388663.9	3743055.4	21.5	0.00	
2.78	1.40	NO	HROFDY					
L0000047		0	0.21010E-07	388663.7	3743049.4	21.5	0.00	
2.78	1.40	NO	HROFDY					
L0000048		0	0.21010E-07	388663.4	3743043.4	21.4	0.00	
2.78	1.40	NO	HROFDY					
L0000049		0	0.21010E-07	388663.2	3743037.4	21.3	0.00	
2.78	1.40	NO	HROFDY					
L0000050		0	0.21010E-07	388662.9	3743031.5	21.3	0.00	
2.78	1.40	NO	HROFDY					
L0000051		0	0.21010E-07	388662.7	3743025.5	21.3	0.00	
2.78	1.40	NO	HROFDY					
L0000052		0	0.21010E-07	388662.4	3743019.5	21.2	0.00	
2.78	1.40	NO	HROFDY					
L0000053		0	0.21010E-07	388662.2	3743013.5	21.2	0.00	
2.78	1.40	NO	HROFDY					
L0000054		0	0.21010E-07	388662.0	3743007.5	21.2	0.00	
2.78	1.40	NO	HROFDY					
L0000055		0	0.21010E-07	388661.7	3743001.6	21.2	0.00	
2.78	1.40	NO	HROFDY					
L0000056		0	0.21010E-07	388661.5	3742995.6	21.2	0.00	
2.78	1.40	NO	HROFDY					
L0000057		0	0.21010E-07	388661.2	3742989.6	21.2	0.00	
2.78	1.40	NO	HROFDY					
L0000058		0	0.21010E-07	388661.0	3742983.6	21.1	0.00	
2.78	1.40	NO	HROFDY					
L0000059		0	0.21010E-07	388660.7	3742977.6	21.1	0.00	
2.78	1.40	NO	HROFDY					
L0000060		0	0.21010E-07	388660.5	3742971.6	21.1	0.00	
2.78	1.40	NO	HROFDY					
L0000061		0	0.21010E-07	388660.2	3742965.7	21.1	0.00	



2.78	1.40	NO	HROFDY				
L0000062		0	0.21010E-07	388660.0	3742959.7	21.1	0.00
2.78	1.40	NO	HROFDY				
L0000063		0	0.21010E-07	388659.7	3742953.7	21.0	0.00
2.78	1.40	NO	HROFDY				
L0000064		0	0.21010E-07	388659.5	3742947.7	21.0	0.00
2.78	1.40	NO	HROFDY				
L0000065		0	0.21010E-07	388659.2	3742941.7	21.0	0.00
2.78	1.40	NO	HROFDY				
L0000066		0	0.21010E-07	388659.0	3742935.8	21.0	0.00
2.78	1.40	NO	HROFDY				
L0000067		0	0.21010E-07	388658.8	3742929.8	20.9	0.00
2.78	1.40	NO	HROFDY				
L0000068		0	0.21010E-07	388658.5	3742923.8	20.9	0.00
2.78	1.40	NO	HROFDY				
L0000069		0	0.21010E-07	388658.3	3742917.8	20.8	0.00
2.78	1.40	NO	HROFDY				
L0000070		0	0.21010E-07	388658.0	3742911.8	20.8	0.00
2.78	1.40	NO	HROFDY				
L0000071		0	0.21010E-07	388657.8	3742905.8	20.7	0.00
2.78	1.40	NO	HROFDY				
L0000072		0	0.21010E-07	388657.5	3742899.9	20.7	0.00
2.78	1.40	NO	HROFDY				
L0000073		0	0.21010E-07	388657.3	3742893.9	20.6	0.00
2.78	1.40	NO	HROFDY				
L0000074		0	0.21010E-07	388657.0	3742887.9	20.6	0.00
2.78	1.40	NO	HROFDY				
L0000075		0	0.21010E-07	388656.8	3742881.9	20.5	0.00
2.78	1.40	NO	HROFDY				
L0000076		0	0.21010E-07	388656.5	3742875.9	20.5	0.00
2.78	1.40	NO	HROFDY				
L0000077		0	0.21010E-07	388656.3	3742870.0	20.4	0.00
2.78	1.40	NO	HROFDY				
L0000078		0	0.21010E-07	388656.0	3742864.0	20.4	0.00
2.78	1.40	NO	HROFDY				
L0000079		0	0.21010E-07	388655.8	3742858.0	20.3	0.00
2.78	1.40	NO	HROFDY				
L0000080		0	0.21010E-07	388655.5	3742852.0	20.3	0.00

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*      12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*      14:36:04

PAGE 4

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    RURAL    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	INIT.	NUMBER	EMISSION	RATE		BASE	RELEASE		
SOURCE		URBAN	EMISSION	RATE	X	Y	ELEV.	HEIGHT	SY
		PART.	(GRAMS/SEC)						

SZ ID (METERS)	SOURCE CATS. (METERS)	SCALAR VARY BY	(METERS)	(METERS)	(METERS)	(METERS)
L0000081	0	0.21010E-07	388655.3	3742846.0	20.2	0.00
2.78	1.40	NO	HROFDY			
L0000082	0	0.21010E-07	388655.1	3742840.0	20.1	0.00
2.78	1.40	NO	HROFDY			
L0000083	0	0.21010E-07	388654.8	3742834.1	20.1	0.00
2.78	1.40	NO	HROFDY			
L0000084	0	0.21010E-07	388654.6	3742828.1	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000085	0	0.21010E-07	388654.3	3742822.1	19.9	0.00
2.78	1.40	NO	HROFDY			
L0000086	0	0.21010E-07	388654.1	3742816.1	19.9	0.00
2.78	1.40	NO	HROFDY			
L0000087	0	0.21010E-07	388653.8	3742810.1	19.8	0.00
2.78	1.40	NO	HROFDY			
L0000088	0	0.21010E-07	388653.6	3742804.2	19.7	0.00
2.78	1.40	NO	HROFDY			
L0000089	0	0.21010E-07	388651.8	3742801.1	19.7	0.00
2.78	1.40	NO	HROFDY			
L0000090	0	0.21010E-07	388646.8	3742804.3	19.6	0.00
2.78	1.40	NO	HROFDY			
L0000091	0	0.21010E-07	388641.7	3742807.5	19.6	0.00
2.78	1.40	NO	HROFDY			
L0000092	0	0.21010E-07	388636.6	3742810.7	19.6	0.00
2.78	1.40	NO	HROFDY			
L0000093	0	0.21010E-07	388631.6	3742813.9	19.6	0.00
2.78	1.40	NO	HROFDY			
L0000094	0	0.21010E-07	388626.5	3742817.1	19.6	0.00
2.78	1.40	NO	HROFDY			
L0000095	0	0.21010E-07	388621.5	3742820.3	19.5	0.00
2.78	1.40	NO	HROFDY			
L0000096	0	0.21010E-07	388616.4	3742823.5	19.5	0.00
2.78	1.40	NO	HROFDY			
L0000097	0	0.21010E-07	388611.3	3742826.7	19.5	0.00
2.78	1.40	NO	HROFDY			
L0000098	0	0.21010E-07	388606.3	3742829.9	19.5	0.00
2.78	1.40	NO	HROFDY			
L0000099	0	0.21010E-07	388601.2	3742833.1	19.4	0.00
2.78	1.40	NO	HROFDY			
L0000100	0	0.21010E-07	388596.2	3742836.3	19.4	0.00
2.78	1.40	NO	HROFDY			
L0000101	0	0.21010E-07	388591.1	3742839.5	19.4	0.00
2.78	1.40	NO	HROFDY			
L0000102	0	0.21010E-07	388586.0	3742842.7	19.3	0.00
2.78	1.40	NO	HROFDY			
L0000103	0	0.21010E-07	388581.0	3742845.9	19.2	0.00
2.78	1.40	NO	HROFDY			
L0000104	0	0.21010E-07	388575.9	3742849.1	19.2	0.00

2.78	1.40	NO	HROFDY				
L0000105		0	0.21010E-07	388570.9	3742852.3	19.2	0.00
2.78	1.40	NO	HROFDY				
L0000106		0	0.21010E-07	388565.8	3742855.5	19.1	0.00
2.78	1.40	NO	HROFDY				
L0000107		0	0.21010E-07	388560.7	3742858.7	19.1	0.00
2.78	1.40	NO	HROFDY				
L0000108		0	0.21010E-07	388555.7	3742861.9	19.2	0.00
2.78	1.40	NO	HROFDY				
L0000109		0	0.21010E-07	388550.6	3742865.1	19.3	0.00
2.78	1.40	NO	HROFDY				
L0000110		0	0.21010E-07	388545.6	3742868.3	19.4	0.00
2.78	1.40	NO	HROFDY				
L0000111		0	0.21010E-07	388540.5	3742871.5	19.4	0.00
2.78	1.40	NO	HROFDY				
L0000112		0	0.21010E-07	388535.4	3742874.7	19.5	0.00
2.78	1.40	NO	HROFDY				
L0000113		0	0.21010E-07	388530.4	3742877.9	19.6	0.00
2.78	1.40	NO	HROFDY				
L0000114		0	0.21010E-07	388525.4	3742881.2	19.6	0.00
2.78	1.40	NO	HROFDY				
L0000115		0	0.21010E-07	388520.5	3742884.6	19.7	0.00
2.78	1.40	NO	HROFDY				
L0000116		0	0.21010E-07	388515.6	3742888.1	19.8	0.00
2.78	1.40	NO	HROFDY				
L0000117		0	0.21010E-07	388510.7	3742891.5	19.8	0.00
2.78	1.40	NO	HROFDY				
L0000118		0	0.21010E-07	388505.8	3742894.9	19.9	0.00
2.78	1.40	NO	HROFDY				
L0000119		0	0.21010E-07	388500.9	3742898.4	19.9	0.00
2.78	1.40	NO	HROFDY				
L0000120		0	0.21010E-07	388496.0	3742901.8	19.9	0.00

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*      12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*      14:36:04

PAGE 5

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    RURAL    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	INIT.	NUMBER	EMISSION	RATE		BASE	RELEASE	
SOURCE	SOURCE	URBAN	EMISSION	RATE	X	Y	ELEV.	HEIGHT
SZ	SOURCE	PART.	(GRAMS/SEC)				(METERS)	(METERS)
ID	CATS.	SCALAR	VARY				(METERS)	(METERS)
(METERS)	(METERS)			BY				

-----

L0000121	0	0.21010E-07	388491.1	3742905.2	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000122	0	0.21010E-07	388486.2	3742908.7	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000123	0	0.21010E-07	388481.2	3742912.1	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000124	0	0.21010E-07	388476.3	3742915.5	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000125	0	0.21010E-07	388471.4	3742918.9	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000126	0	0.21010E-07	388466.5	3742922.4	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000127	0	0.21010E-07	388461.6	3742925.8	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000128	0	0.21010E-07	388456.7	3742929.2	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000129	0	0.21010E-07	388451.8	3742932.7	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000130	0	0.21010E-07	388446.9	3742936.1	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000131	0	0.21010E-07	388442.0	3742939.5	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000132	0	0.21010E-07	388437.1	3742943.0	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000133	0	0.21010E-07	388432.2	3742946.4	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000134	0	0.21010E-07	388427.3	3742949.9	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000135	0	0.21010E-07	388422.4	3742953.3	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000136	0	0.21010E-07	388417.6	3742956.8	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000137	0	0.21010E-07	388412.7	3742960.3	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000138	0	0.21010E-07	388407.8	3742963.7	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000139	0	0.21010E-07	388402.9	3742967.2	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000140	0	0.21010E-07	388398.0	3742970.7	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000141	0	0.21010E-07	388393.2	3742974.1	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000142	0	0.21010E-07	388388.3	3742977.6	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000143	0	0.21010E-07	388383.4	3742981.1	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000144	0	0.21010E-07	388378.5	3742984.6	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000145	0	0.21010E-07	388373.6	3742988.0	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000146	0	0.21010E-07	388368.8	3742991.5	20.0	0.00
2.78	1.40	NO	HROFDY			
L0000147	0	0.21010E-07	388363.9	3742995.0	20.0	0.00

2.78 1.40 NO HROFDY  
L0000148 0 0.21010E-07 388359.0 3742998.4 20.0 0.00

2.78 1.40 NO HROFDY

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* 14:36:04

PAGE 6

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE

GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

-----

-----

ALL L0000001 , L0000002 , L0000003 , L0000004 , L0000005  
, L0000006 , L0000007 , L0000008 ,

L0000009 , L0000010 , L0000011 , L0000012 , L0000013  
, L0000014 , L0000015 , L0000016 ,

L0000017 , L0000018 , L0000019 , L0000020 , L0000021  
, L0000022 , L0000023 , L0000024 ,

L0000025 , L0000026 , L0000027 , L0000028 , L0000029  
, L0000030 , L0000031 , L0000032 ,

L0000033 , L0000034 , L0000035 , L0000036 , L0000037  
, L0000038 , L0000039 , L0000040 ,

L0000041 , L0000042 , L0000043 , L0000044 , L0000045  
, L0000046 , L0000047 , L0000048 ,

L0000049 , L0000050 , L0000051 , L0000052 , L0000053  
, L0000054 , L0000055 , L0000056 ,

L0000057 , L0000058 , L0000059 , L0000060 , L0000061  
, L0000062 , L0000063 , L0000064 ,

L0000065 , L0000066 , L0000067 , L0000068 , L0000069  
, L0000070 , L0000071 , L0000072 ,

L0000073 , L0000074 , L0000075 , L0000076 , L0000077  
, L0000078 , L0000079 , L0000080 ,

L0000081 , L0000082 , L0000083 , L0000084 , L0000085  
, L0000086 , L0000087 , L0000088 ,

L0000089 , L0000090 , L0000091 , L0000092 , L0000093

, L0000094 , L0000095 , L0000096 ,  
 L0000097 , L0000098 , L0000099 , L0000100 , L0000101  
 , L0000102 , L0000103 , L0000104 ,  
 L0000105 , L0000106 , L0000107 , L0000108 , L0000109  
 , L0000110 , L0000111 , L0000112 ,  
 L0000113 , L0000114 , L0000115 , L0000116 , L0000117  
 , L0000118 , L0000119 , L0000120 ,  
 L0000121 , L0000122 , L0000123 , L0000124 , L0000125  
 , L0000126 , L0000127 , L0000128 ,  
 L0000129 , L0000130 , L0000131 , L0000132 , L0000133  
 , L0000134 , L0000135 , L0000136 ,  
 L0000137 , L0000138 , L0000139 , L0000140 , L0000141  
 , L0000142 , L0000143 , L0000144 ,

L0000145 , L0000146 , L0000147 , L0000148 ,  
 \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 7

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

SOURCE ID = L0000001 ; SOURCE TYPE = VOLUME :  
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
 .00000E+00 5 .00000E+00 6 .00000E+00  
 7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
 .10000E+01 11 .10000E+01 12 .10000E+01  
 .10000E+01 13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
 .00000E+00 17 .00000E+00 18 .00000E+00  
 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000002 ; SOURCE TYPE = VOLUME :  
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
 .00000E+00 5 .00000E+00 6 .00000E+00  
 7 .00000E+00 8 .00000E+00 9 .10000E+01 10

.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000003 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000004 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000005 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:36:04

PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR		

-----

-----

SOURCE ID = L000006 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000007 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000008 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000009 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000010 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16



```

.00000E+00    17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22
.00000E+00    23  .00000E+00    24  .00000E+00

```

```

^ *** AERMOD - VERSION 21112 *** *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C *** 12/01/21
*** AERMET - VERSION 16216 *** ***
*** 14:36:04

```

PAGE 9

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

```

      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR
SCALAR      HOUR      SCALAR      HOUR      SCALAR
-----

```

```

SOURCE ID = L000011 ; SOURCE TYPE = VOLUME :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

```

SOURCE ID = L000012 ; SOURCE TYPE = VOLUME :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

```

SOURCE ID = L000013 ; SOURCE TYPE = VOLUME :
      1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
      7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
      13  .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
      19  .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

SOURCE ID = L000014 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000015 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
 \*\*\* 14:36:04

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

SOURCE ID = L000016 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000017 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		

7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000018 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000019 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000020 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
 \*\*\* 14:36:04

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR		

-----

SOURCE ID = L000021 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000022 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000023 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000024 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000025 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		

13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*      12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*      14:36:04

PAGE 12

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    RURAL    ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR		

-----

SOURCE ID = L000026      ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000027      ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000028      ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000029 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000030 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

SOURCE ID = L0000031 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000032 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
---	------------	---	------------	---	------------	---

.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000033 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000034 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000035 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 14

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
------	--------	------	--------	------	--------	------

SCALAR      HOUR      SCALAR      HOUR      SCALAR  
 - - - - -  
 - - - - -

SOURCE ID = L000036      ; SOURCE TYPE = VOLUME      :  
       1 .0000E+00      2 .0000E+00      3 .0000E+00      4  
 .0000E+00      5 .0000E+00      6 .0000E+00  
       7 .0000E+00      8 .0000E+00      9 .1000E+01      10  
 .1000E+01      11 .1000E+01      12 .1000E+01  
       13 .1000E+01      14 .1000E+01      15 .1000E+01      16  
 .0000E+00      17 .0000E+00      18 .0000E+00  
       19 .0000E+00      20 .0000E+00      21 .0000E+00      22  
 .0000E+00      23 .0000E+00      24 .0000E+00

SOURCE ID = L000037      ; SOURCE TYPE = VOLUME      :  
       1 .0000E+00      2 .0000E+00      3 .0000E+00      4  
 .0000E+00      5 .0000E+00      6 .0000E+00  
       7 .0000E+00      8 .0000E+00      9 .1000E+01      10  
 .1000E+01      11 .1000E+01      12 .1000E+01  
       13 .1000E+01      14 .1000E+01      15 .1000E+01      16  
 .0000E+00      17 .0000E+00      18 .0000E+00  
       19 .0000E+00      20 .0000E+00      21 .0000E+00      22  
 .0000E+00      23 .0000E+00      24 .0000E+00

SOURCE ID = L000038      ; SOURCE TYPE = VOLUME      :  
       1 .0000E+00      2 .0000E+00      3 .0000E+00      4  
 .0000E+00      5 .0000E+00      6 .0000E+00  
       7 .0000E+00      8 .0000E+00      9 .1000E+01      10  
 .1000E+01      11 .1000E+01      12 .1000E+01  
       13 .1000E+01      14 .1000E+01      15 .1000E+01      16  
 .0000E+00      17 .0000E+00      18 .0000E+00  
       19 .0000E+00      20 .0000E+00      21 .0000E+00      22  
 .0000E+00      23 .0000E+00      24 .0000E+00

SOURCE ID = L000039      ; SOURCE TYPE = VOLUME      :  
       1 .0000E+00      2 .0000E+00      3 .0000E+00      4  
 .0000E+00      5 .0000E+00      6 .0000E+00  
       7 .0000E+00      8 .0000E+00      9 .1000E+01      10  
 .1000E+01      11 .1000E+01      12 .1000E+01  
       13 .1000E+01      14 .1000E+01      15 .1000E+01      16  
 .0000E+00      17 .0000E+00      18 .0000E+00  
       19 .0000E+00      20 .0000E+00      21 .0000E+00      22  
 .0000E+00      23 .0000E+00      24 .0000E+00

SOURCE ID = L000040      ; SOURCE TYPE = VOLUME      :  
       1 .0000E+00      2 .0000E+00      3 .0000E+00      4  
 .0000E+00      5 .0000E+00      6 .0000E+00  
       7 .0000E+00      8 .0000E+00      9 .1000E+01      10



```

.10000E+01    11  .10000E+01    12  .10000E+01
      13  .10000E+01    14  .10000E+01    15  .10000E+01    16
.00000E+00    17  .00000E+00    18  .00000E+00
      19  .00000E+00    20  .00000E+00    21  .00000E+00    22
.00000E+00    23  .00000E+00    24  .00000E+00

```

```

^ *** AERMOD - VERSION 21112 ***   *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C ***   12/01/21
*** AERMET - VERSION 16216 ***   ***
***                                     ***   14:36:04

```

PAGE 15

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR SCALAR	SCALAR HOUR	HOUR SCALAR	SCALAR HOUR	HOUR SCALAR	SCALAR HOUR	HOUR SCALAR	HOUR SCALAR
-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------

```

SOURCE ID = L000041 ; SOURCE TYPE = VOLUME :
  1 .00000E+00    2 .00000E+00    3 .00000E+00    4
.00000E+00    5 .00000E+00    6 .00000E+00
  7 .00000E+00    8 .00000E+00    9 .10000E+01    10
.10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01   16
.00000E+00   17 .00000E+00   18 .00000E+00
 19 .00000E+00   20 .00000E+00   21 .00000E+00   22
.00000E+00   23 .00000E+00   24 .00000E+00

```

```

SOURCE ID = L000042 ; SOURCE TYPE = VOLUME :
  1 .00000E+00    2 .00000E+00    3 .00000E+00    4
.00000E+00    5 .00000E+00    6 .00000E+00
  7 .00000E+00    8 .00000E+00    9 .10000E+01    10
.10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01   16
.00000E+00   17 .00000E+00   18 .00000E+00
 19 .00000E+00   20 .00000E+00   21 .00000E+00   22
.00000E+00   23 .00000E+00   24 .00000E+00

```

```

SOURCE ID = L000043 ; SOURCE TYPE = VOLUME :
  1 .00000E+00    2 .00000E+00    3 .00000E+00    4
.00000E+00    5 .00000E+00    6 .00000E+00
  7 .00000E+00    8 .00000E+00    9 .10000E+01    10
.10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01   16
.00000E+00   17 .00000E+00   18 .00000E+00
 19 .00000E+00   20 .00000E+00   21 .00000E+00   22

```

.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000044 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000045 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR		

-----

-----

SOURCE ID = L0000046 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000047 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000048 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000049 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000050 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*      12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                                  \*\*\*      14:36:04

PAGE 17

\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      RURAL      ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

SOURCE ID = L000051 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000052 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000053 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000054 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000055 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		

7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*      12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*      14:36:04

PAGE 18

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    RURAL    ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

-----

SOURCE ID = L000056      ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000057      ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000058      ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		

19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000059 ; SOURCE TYPE = VOLUME :  
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
 .00000E+00 5 .00000E+00 6 .00000E+00  
 7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
 .00000E+00 17 .00000E+00 18 .00000E+00  
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :  
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
 .00000E+00 5 .00000E+00 6 .00000E+00  
 7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
 .00000E+00 17 .00000E+00 18 .00000E+00  
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
 .00000E+00 23 .00000E+00 24 .00000E+00

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
 \*\*\* 14:36:04

PAGE 19

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

-----

SOURCE ID = L0000061 ; SOURCE TYPE = VOLUME :  
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
 .00000E+00 5 .00000E+00 6 .00000E+00  
 7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
 .00000E+00 17 .00000E+00 18 .00000E+00  
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L000062 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000063 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000064 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000065 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 20

\*\*\* MODELOPTs: RegDFault CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

-----

SOURCE ID = L000066 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000067 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000068 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000069 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000070 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
---	------------	---	------------	---	------------	---



.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*                    12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*                    14:36:04

PAGE 21

\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    RURAL    ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

SOURCE ID = L000071            ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000072            ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000073            ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16

```
.00000E+00    17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22
.00000E+00    23  .00000E+00    24  .00000E+00
```

```
SOURCE ID = L000074      ; SOURCE TYPE = VOLUME      :
    1  .00000E+00    2  .00000E+00    3  .00000E+00    4
.00000E+00    5  .00000E+00    6  .00000E+00
    7  .00000E+00    8  .00000E+00    9  .10000E+01    10
.10000E+01   11  .10000E+01   12  .10000E+01
    13  .10000E+01   14  .10000E+01   15  .10000E+01   16
.00000E+00   17  .00000E+00   18  .00000E+00
    19  .00000E+00   20  .00000E+00   21  .00000E+00   22
.00000E+00   23  .00000E+00   24  .00000E+00
```

```
SOURCE ID = L000075      ; SOURCE TYPE = VOLUME      :
    1  .00000E+00    2  .00000E+00    3  .00000E+00    4
.00000E+00    5  .00000E+00    6  .00000E+00
    7  .00000E+00    8  .00000E+00    9  .10000E+01    10
.10000E+01   11  .10000E+01   12  .10000E+01
    13  .10000E+01   14  .10000E+01   15  .10000E+01   16
.00000E+00   17  .00000E+00   18  .00000E+00
    19  .00000E+00   20  .00000E+00   21  .00000E+00   22
.00000E+00   23  .00000E+00   24  .00000E+00
```

```
▲ *** AERMOD - VERSION 21112 ***      *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C ***      12/01/21
*** AERMET - VERSION 16216 ***      ***
***      14:36:04
```

PAGE 22

\*\*\* MODELOPTs: RegDFault CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

```
      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR
SCALAR      HOUR      SCALAR      HOUR      SCALAR
-----
```

```
SOURCE ID = L000076      ; SOURCE TYPE = VOLUME      :
    1  .00000E+00    2  .00000E+00    3  .00000E+00    4
.00000E+00    5  .00000E+00    6  .00000E+00
    7  .00000E+00    8  .00000E+00    9  .10000E+01    10
.10000E+01   11  .10000E+01   12  .10000E+01
    13  .10000E+01   14  .10000E+01   15  .10000E+01   16
.00000E+00   17  .00000E+00   18  .00000E+00
    19  .00000E+00   20  .00000E+00   21  .00000E+00   22
.00000E+00   23  .00000E+00   24  .00000E+00
```

SOURCE ID = L0000077 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000078 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000079 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000080 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:36:04

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR

EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

SOURCE ID = L0000081 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000082 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000083 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000084 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000085 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*                    12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*                    14:36:04

PAGE 24

\*\*\* MODELOPTs:    RegDFAULT    CONC    ELEV    RURAL    ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR		

-----

SOURCE ID = L0000086            ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000087            ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000088            ; SOURCE TYPE = VOLUME    :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		

13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000089 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000090 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 14:36:04

PAGE 25

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR		

SOURCE ID = L000091 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000092 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000093 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000094 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000095 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
EACH HOUR OF THE DAY \*

HOUR SCALAR	SCALAR HOUR	HOUR SCALAR	SCALAR HOUR	HOUR SCALAR	SCALAR	HOUR
----------------	----------------	----------------	----------------	----------------	--------	------

SOURCE ID = L000096 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000097 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000098 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L000099 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		



```

SOURCE ID = L0000100      ; SOURCE TYPE = VOLUME      :
   1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
   7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
   13 .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
   19 .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

```

^ *** AERMOD - VERSION 21112 ***      *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C ***      12/01/21
*** AERMET - VERSION 16216 ***      ***
***      14:36:04

```

PAGE 27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----

```

SOURCE ID = L0000101      ; SOURCE TYPE = VOLUME      :
   1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
   7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
   13 .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
   19 .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

```

SOURCE ID = L0000102      ; SOURCE TYPE = VOLUME      :
   1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
   7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
   13 .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
   19 .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

```

SOURCE ID = L0000103      ; SOURCE TYPE = VOLUME      :
   1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
   7  .00000E+00      8  .00000E+00      9  .10000E+01     10

```

```

.10000E+01    11  .10000E+01    12  .10000E+01
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16
.00000E+00    17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22
.00000E+00    23  .00000E+00    24  .00000E+00

```

```

SOURCE ID = L000104      ; SOURCE TYPE = VOLUME      :
    1  .00000E+00    2  .00000E+00    3  .00000E+00    4
.00000E+00    5  .00000E+00    6  .00000E+00
    7  .00000E+00    8  .00000E+00    9  .10000E+01    10
.10000E+01    11  .10000E+01    12  .10000E+01
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16
.00000E+00    17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22
.00000E+00    23  .00000E+00    24  .00000E+00

```

```

SOURCE ID = L000105      ; SOURCE TYPE = VOLUME      :
    1  .00000E+00    2  .00000E+00    3  .00000E+00    4
.00000E+00    5  .00000E+00    6  .00000E+00
    7  .00000E+00    8  .00000E+00    9  .10000E+01    10
.10000E+01    11  .10000E+01    12  .10000E+01
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16
.00000E+00    17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22
.00000E+00    23  .00000E+00    24  .00000E+00

```

```

^ *** AERMOD - VERSION 21112 ***      *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C ***      12/01/21
*** AERMET - VERSION 16216 ***      ***
***      14:36:04

```

PAGE 28

\*\*\* MODELOPTs: RegDFault CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

```

      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR
SCALAR      HOUR      SCALAR      HOUR      SCALAR
-----

```

```

SOURCE ID = L000106      ; SOURCE TYPE = VOLUME      :
    1  .00000E+00    2  .00000E+00    3  .00000E+00    4
.00000E+00    5  .00000E+00    6  .00000E+00
    7  .00000E+00    8  .00000E+00    9  .10000E+01    10
.10000E+01    11  .10000E+01    12  .10000E+01
    13  .10000E+01    14  .10000E+01    15  .10000E+01    16
.00000E+00    17  .00000E+00    18  .00000E+00
    19  .00000E+00    20  .00000E+00    21  .00000E+00    22

```

.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000107 ; SOURCE TYPE = VOLUME :  
1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
.00000E+00 5 .00000E+00 6 .00000E+00  
7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
.10000E+01 11 .10000E+01 12 .10000E+01  
13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
.00000E+00 17 .00000E+00 18 .00000E+00  
19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000108 ; SOURCE TYPE = VOLUME :  
1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
.00000E+00 5 .00000E+00 6 .00000E+00  
7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
.10000E+01 11 .10000E+01 12 .10000E+01  
13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
.00000E+00 17 .00000E+00 18 .00000E+00  
19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000109 ; SOURCE TYPE = VOLUME :  
1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
.00000E+00 5 .00000E+00 6 .00000E+00  
7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
.10000E+01 11 .10000E+01 12 .10000E+01  
13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
.00000E+00 17 .00000E+00 18 .00000E+00  
19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000110 ; SOURCE TYPE = VOLUME :  
1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
.00000E+00 5 .00000E+00 6 .00000E+00  
7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
.10000E+01 11 .10000E+01 12 .10000E+01  
13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
.00000E+00 17 .00000E+00 18 .00000E+00  
19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
\*\*\* 14:36:04

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR SCALAR	SCALAR HOUR	HOUR SCALAR	SCALAR HOUR	HOUR SCALAR	SCALAR HOUR	HOUR
-------------	-------------	-------------	-------------	-------------	-------------	------

SOURCE ID = L0000111 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000112 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000113 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000114 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

```

SOURCE ID = L0000115      ; SOURCE TYPE = VOLUME      :
   1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
   7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
  13  .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
  19  .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

```

^ *** AERMOD - VERSION 21112 ***      *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C ***      12/01/21
*** AERMET - VERSION 16216 ***      ***
***      14:36:04

```

PAGE 30

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

```

SOURCE ID = L0000116      ; SOURCE TYPE = VOLUME      :
   1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
   7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
  13  .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
  19  .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

```

SOURCE ID = L0000117      ; SOURCE TYPE = VOLUME      :
   1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00
   7  .00000E+00      8  .00000E+00      9  .10000E+01     10
.10000E+01     11  .10000E+01     12  .10000E+01
  13  .10000E+01     14  .10000E+01     15  .10000E+01     16
.00000E+00     17  .00000E+00     18  .00000E+00
  19  .00000E+00     20  .00000E+00     21  .00000E+00     22
.00000E+00     23  .00000E+00     24  .00000E+00

```

```

SOURCE ID = L0000118      ; SOURCE TYPE = VOLUME      :
   1  .00000E+00      2  .00000E+00      3  .00000E+00      4
.00000E+00      5  .00000E+00      6  .00000E+00

```

7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000119 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000120 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
 \*\*\* 14:36:04

PAGE 31

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR		

-----

SOURCE ID = L0000121 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		

19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000122 ; SOURCE TYPE = VOLUME :  
1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
.00000E+00 5 .00000E+00 6 .00000E+00  
7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
.10000E+01 11 .10000E+01 12 .10000E+01  
13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
.00000E+00 17 .00000E+00 18 .00000E+00  
19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000123 ; SOURCE TYPE = VOLUME :  
1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
.00000E+00 5 .00000E+00 6 .00000E+00  
7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
.10000E+01 11 .10000E+01 12 .10000E+01  
13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
.00000E+00 17 .00000E+00 18 .00000E+00  
19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000124 ; SOURCE TYPE = VOLUME :  
1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
.00000E+00 5 .00000E+00 6 .00000E+00  
7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
.10000E+01 11 .10000E+01 12 .10000E+01  
13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
.00000E+00 17 .00000E+00 18 .00000E+00  
19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000125 ; SOURCE TYPE = VOLUME :  
1 .00000E+00 2 .00000E+00 3 .00000E+00 4  
.00000E+00 5 .00000E+00 6 .00000E+00  
7 .00000E+00 8 .00000E+00 9 .10000E+01 10  
.10000E+01 11 .10000E+01 12 .10000E+01  
13 .10000E+01 14 .10000E+01 15 .10000E+01 16  
.00000E+00 17 .00000E+00 18 .00000E+00  
19 .00000E+00 20 .00000E+00 21 .00000E+00 22  
.00000E+00 23 .00000E+00 24 .00000E+00

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
\*\*\* 14:36:04

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

-----

SOURCE ID = L0000126 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000127 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000128 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000129 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		



SOURCE ID = L0000130 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	
.00000E+00	5	.00000E+00	6	.00000E+00			
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	
.10000E+01	11	.10000E+01	12	.10000E+01			
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	
.00000E+00	17	.00000E+00	18	.00000E+00			
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	
.00000E+00	23	.00000E+00	24	.00000E+00			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 33

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

-----

SOURCE ID = L0000131 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	
.00000E+00	5	.00000E+00	6	.00000E+00			
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	
.10000E+01	11	.10000E+01	12	.10000E+01			
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	
.00000E+00	17	.00000E+00	18	.00000E+00			
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	
.00000E+00	23	.00000E+00	24	.00000E+00			

SOURCE ID = L0000132 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	
.00000E+00	5	.00000E+00	6	.00000E+00			
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	
.10000E+01	11	.10000E+01	12	.10000E+01			
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	
.00000E+00	17	.00000E+00	18	.00000E+00			
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	
.00000E+00	23	.00000E+00	24	.00000E+00			

SOURCE ID = L0000133 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	
---	------------	---	------------	---	------------	---	--

.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000134 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000135 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

SOURCE ID = L0000136 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16

.00000E+00	17	.00000E+00	18	.00000E+00	
	19	.00000E+00	20	.00000E+00	21 .00000E+00
.00000E+00	23	.00000E+00	24	.00000E+00	22

SOURCE ID = L0000137 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
	5	.00000E+00	6	.00000E+00		
.00000E+00	7	.00000E+00	8	.00000E+00	9	.10000E+01
.10000E+01	11	.10000E+01	12	.10000E+01		10
	13	.10000E+01	14	.10000E+01	15	.10000E+01
.00000E+00	17	.00000E+00	18	.00000E+00		16
	19	.00000E+00	20	.00000E+00	21	.00000E+00
.00000E+00	23	.00000E+00	24	.00000E+00		22

SOURCE ID = L0000138 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
	5	.00000E+00	6	.00000E+00		
.00000E+00	7	.00000E+00	8	.00000E+00	9	.10000E+01
.10000E+01	11	.10000E+01	12	.10000E+01		10
	13	.10000E+01	14	.10000E+01	15	.10000E+01
.00000E+00	17	.00000E+00	18	.00000E+00		16
	19	.00000E+00	20	.00000E+00	21	.00000E+00
.00000E+00	23	.00000E+00	24	.00000E+00		22

SOURCE ID = L0000139 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
	5	.00000E+00	6	.00000E+00		
.00000E+00	7	.00000E+00	8	.00000E+00	9	.10000E+01
.10000E+01	11	.10000E+01	12	.10000E+01		10
	13	.10000E+01	14	.10000E+01	15	.10000E+01
.00000E+00	17	.00000E+00	18	.00000E+00		16
	19	.00000E+00	20	.00000E+00	21	.00000E+00
.00000E+00	23	.00000E+00	24	.00000E+00		22

SOURCE ID = L0000140 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
	5	.00000E+00	6	.00000E+00		
.00000E+00	7	.00000E+00	8	.00000E+00	9	.10000E+01
.10000E+01	11	.10000E+01	12	.10000E+01		10
	13	.10000E+01	14	.10000E+01	15	.10000E+01
.00000E+00	17	.00000E+00	18	.00000E+00		16
	19	.00000E+00	20	.00000E+00	21	.00000E+00
.00000E+00	23	.00000E+00	24	.00000E+00		22

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C      \*\*\*      12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                                  \*\*\*      14:36:04

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

SOURCE ID = L0000141 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000142 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000143 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000144 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22

.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000145 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
 \*\*\* 14:36:04

PAGE 36

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR  
 EACH HOUR OF THE DAY \*

SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
--------	------	--------	------	--------	------	--------	------

-----

SOURCE ID = L0000146 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000147 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4
.00000E+00	5	.00000E+00	6	.00000E+00		
7	.00000E+00	8	.00000E+00	9	.10000E+01	10
.10000E+01	11	.10000E+01	12	.10000E+01		
13	.10000E+01	14	.10000E+01	15	.10000E+01	16
.00000E+00	17	.00000E+00	18	.00000E+00		
19	.00000E+00	20	.00000E+00	21	.00000E+00	22
.00000E+00	23	.00000E+00	24	.00000E+00		

SOURCE ID = L0000148 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	
.00000E+00	5	.00000E+00	6	.00000E+00			
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	
.10000E+01	11	.10000E+01	12	.10000E+01			
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	
.00000E+00	17	.00000E+00	18	.00000E+00			
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	
.00000E+00	23	.00000E+00	24	.00000E+00			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\*                      12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*                      14:36:04

PAGE 37

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    RURAL    ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS

\*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL,

ZFLAG)

(METERS)

(	388742.8,	3743150.6,	23.6,	23.6,	0.0);	(
388742.2,	3743140.2,	23.5,	23.5,	0.0);	(	
(	388742.2,	3743130.9,	23.4,	23.4,	0.0);	(
388742.2,	3743120.4,	23.3,	23.3,	0.0);	(	
(	388742.2,	3743109.9,	23.2,	23.2,	0.0);	(
388742.2,	3743099.5,	23.0,	23.0,	0.0);	(	
(	388742.2,	3743089.6,	22.9,	22.9,	0.0);	(
388741.6,	3743079.8,	22.8,	22.8,	0.0);	(	
(	388742.8,	3743069.3,	22.7,	22.7,	0.0);	(
388741.1,	3743059.4,	22.6,	22.6,	0.0);	(	
(	388740.5,	3743047.2,	22.5,	22.5,	0.0);	(
388739.9,	3743038.5,	22.4,	22.4,	0.0);	(	
(	388738.8,	3743028.1,	22.2,	22.2,	0.0);	(
388743.4,	3742991.5,	21.9,	21.9,	0.0);	(	
(	388740.5,	3742971.7,	21.7,	21.7,	0.0);	(
388739.3,	3742961.3,	21.5,	21.5,	0.0);	(	
(	388739.3,	3742950.8,	21.4,	21.4,	0.0);	(
388743.4,	3742939.8,	21.4,	21.4,	0.0);	(	
(	388744.6,	3742921.2,	21.4,	21.4,	0.0);	(
388746.9,	3742907.2,	21.4,	21.4,	0.0);	(	
(	388758.5,	3742891.6,	21.6,	21.6,	0.0);	(
388772.4,	3742877.6,	21.7,	21.7,	0.0);	(	
(	388777.1,	3742856.7,	21.8,	21.8,	0.0);	(
388839.2,	3742781.8,	21.3,	21.3,	0.0);	(	
(	388829.4,	3742796.3,	21.4,	21.4,	0.0);	(
388820.1,	3742809.1,	21.6,	21.6,	0.0);	(	
(	388813.1,	3742824.2,	21.8,	21.8,	0.0);	(
388807.9,	3742839.9,	21.9,	21.9,	0.0);	(	
(	388740.3,	3743179.6,	23.9,	23.9,	0.0);	(
388741.1,	3743215.9,	24.3,	24.3,	0.0);	(	

( 388751.4, 3743215.7, 24.4, 24.4, 0.0); (  
388763.2, 3743216.7, 24.6, 24.6, 0.0); (  
( 388773.0, 3743216.7, 24.7, 24.7, 0.0); (  
388783.9, 3743216.5, 24.8, 24.8, 0.0); (  
( 388751.4, 3743179.3, 24.0, 24.0, 0.0); (  
388761.7, 3743179.1, 24.1, 24.1, 0.0); (  
( 388773.0, 3743178.6, 24.3, 24.3, 0.0); (  
388782.6, 3743178.6, 24.4, 24.4, 0.0); (  
( 388774.3, 3743019.6, 22.6, 22.6, 0.0); (  
388774.0, 3743029.6, 22.7, 22.7, 0.0); (  
( 388774.0, 3743039.0, 22.8, 22.8, 0.0); (  
388773.7, 3743048.1, 22.9, 22.9, 0.0); (  
( 388773.4, 3743057.8, 23.0, 23.0, 0.0); (  
388774.0, 3743067.2, 23.1, 23.1, 0.0); (  
( 388773.4, 3743076.6, 23.2, 23.2, 0.0); (  
388773.1, 3743086.9, 23.3, 23.3, 0.0); (  
( 388773.4, 3743096.3, 23.4, 23.4, 0.0); (  
388773.4, 3743106.6, 23.5, 23.5, 0.0); (  
( 388773.4, 3743116.6, 23.6, 23.6, 0.0); (  
388773.7, 3743125.7, 23.7, 23.7, 0.0); (  
( 388774.0, 3743135.4, 23.8, 23.8, 0.0); (  
388774.6, 3743145.4, 23.9, 23.9, 0.0); (  
( 388774.0, 3743155.4, 24.1, 24.1, 0.0); (  
388773.1, 3743165.4, 24.2, 24.2, 0.0); (  
( 388904.0, 3742776.0, 21.7, 21.7, 0.0); (  
388921.6, 3742775.1, 21.9, 21.9, 0.0); (  
( 388938.4, 3742774.7, 22.1, 22.1, 0.0); (  
388951.9, 3742773.0, 22.3, 22.3, 0.0); (  
( 388967.0, 3742772.2, 22.4, 22.4, 0.0); (  
388982.5, 3742773.5, 22.6, 22.6, 0.0); (  
( 388997.6, 3742772.2, 22.8, 22.8, 0.0); (  
388888.5, 3742782.7, 21.6, 21.6, 0.0); (  
( 388875.1, 3742802.8, 21.6, 21.6, 0.0); (  
389012.7, 3742772.6, 22.9, 22.9, 0.0); (  
( 389027.0, 3742773.0, 23.0, 23.0, 0.0); (  
389044.6, 3742773.0, 23.1, 23.1, 0.0); (  
( 389057.6, 3742775.1, 23.1, 23.1, 0.0); (  
389074.4, 3742773.0, 23.2, 23.2, 0.0); (  
( 389092.5, 3742769.3, 23.2, 23.2, 0.0); (  
388771.9, 3742923.1, 21.7, 21.7, 0.0); (  
( 388772.4, 3742931.4, 21.7, 21.7, 0.0); (  
388773.4, 3742941.2, 21.8, 21.8, 0.0); (  
( 388773.9, 3742951.2, 21.9, 21.9, 0.0); (  
388773.7, 3742961.0, 22.0, 22.0, 0.0); (  
( 388774.7, 3742970.6, 22.1, 22.1, 0.0); (  
389142.7, 3742763.3, 23.7, 23.7, 0.0); (  
( 389157.7, 3742768.3, 23.9, 23.9, 0.0); (  
389173.8, 3742773.6, 24.2, 24.2, 0.0); (  
( 389187.7, 3742776.8, 24.3, 24.3, 0.0); (  
388808.1, 3742857.1, 22.0, 22.0, 0.0); (  
( 388807.4, 3742873.9, 22.1, 22.1, 0.0); (  
388804.2, 3742888.9, 22.1, 22.1, 0.0); (  
( 388804.2, 3742904.2, 22.1, 22.1, 0.0); (

```

388804.9, 3742919.2, 22.1, 22.1, 0.0);
( 388807.0, 3742934.9, 22.2, 22.2, 0.0);
388806.3, 3742950.2, 22.3, 22.3, 0.0);
( 388806.0, 3742965.2, 22.4, 22.4, 0.0);
388805.3, 3742980.2, 22.6, 22.6, 0.0);
( 388804.9, 3742996.6, 22.8, 22.8, 0.0);
388806.3, 3743010.5, 22.9, 22.9, 0.0);
^ *** AERMOD - VERSION 21112 *** *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C *** 12/01/21
*** AERMET - VERSION 16216 *** ***
*** 14:36:04

```

PAGE 38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS

\*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL,

ZFLAG)

(METERS)

```

( 388806.7, 3743025.2, 23.1, 23.1, 0.0);
388806.7, 3743041.6, 23.2, 23.2, 0.0);
( 388805.6, 3743057.3, 23.4, 23.4, 0.0);
388807.4, 3743072.3, 23.5, 23.5, 0.0);
( 388807.0, 3743086.9, 23.7, 23.7, 0.0);
388808.1, 3743101.5, 23.8, 23.8, 0.0);
( 388808.1, 3743116.5, 23.9, 23.9, 0.0);
388808.8, 3743132.9, 24.1, 24.1, 0.0);
( 388809.9, 3743149.0, 24.3, 24.3, 0.0);
388808.8, 3743163.6, 24.4, 24.4, 0.0);
( 388817.4, 3743181.1, 24.6, 24.6, 0.0);
388829.1, 3743195.2, 24.8, 24.8, 0.0);
( 388844.6, 3743204.6, 24.9, 24.9, 0.0);
388858.3, 3743215.2, 25.0, 25.0, 0.0);
( 389096.4, 3742696.8, 22.4, 22.4, 0.0);
389047.7, 3742697.2, 22.4, 22.4, 0.0);
( 388993.6, 3742696.3, 22.0, 22.0, 0.0);
388943.2, 3742697.2, 21.4, 21.4, 0.0);
( 388905.0, 3742691.3, 21.2, 21.2, 0.0);
388887.8, 3742689.6, 21.1, 21.1, 0.0);
( 388872.7, 3742691.3, 21.0, 21.0, 0.0);
388858.0, 3742690.9, 20.9, 20.9, 0.0);
( 388849.2, 3742706.0, 20.9, 20.9, 0.0);
388842.0, 3742691.7, 20.8, 20.8, 0.0);
( 388829.9, 3742693.4, 20.7, 20.7, 0.0);
388815.6, 3742696.3, 20.6, 20.6, 0.0);
( 388798.4, 3742702.2, 20.5, 20.5, 0.0);
388787.5, 3742708.9, 20.5, 20.5, 0.0);
( 388783.3, 3742693.8, 20.2, 20.2, 0.0);
388765.2, 3742694.6, 20.0, 20.0, 0.0);
( 388751.4, 3742690.9, 19.8, 19.8, 0.0);
388739.6, 3742703.5, 19.8, 19.8, 0.0);

```



( 388559.5, 3742808.0, 19.0, 19.0, 0.0); (  
388584.7, 3742796.2, 19.1, 19.1, 0.0); (  
( 388610.3, 3742785.3, 19.2, 19.2, 0.0); (  
388638.0, 3742772.3, 19.2, 19.2, 0.0); (  
( 388662.8, 3742753.4, 19.3, 19.3, 0.0); (  
388685.0, 3742748.4, 19.5, 19.5, 0.0); (  
( 388707.3, 3742750.1, 19.9, 19.9, 0.0); (  
388631.7, 3742754.7, 19.0, 19.0, 0.0); (  
( 388594.0, 3742751.3, 18.9, 18.9, 0.0); (  
388552.4, 3742781.5, 19.0, 19.0, 0.0); (  
( 388551.6, 3742755.9, 19.0, 19.0, 0.0); (  
388855.6, 3742837.0, 21.9, 21.9, 0.0); (  
( 388874.1, 3742845.8, 22.1, 22.1, 0.0); (  
388850.2, 3742861.3, 22.1, 22.1, 0.0); (  
( 388849.6, 3742894.7, 22.4, 22.4, 0.0); (  
388850.2, 3742907.4, 22.5, 22.5, 0.0); (  
( 388889.0, 3742853.7, 22.3, 22.3, 0.0); (  
388904.1, 3742859.5, 22.5, 22.5, 0.0); (  
( 388919.9, 3742859.5, 22.7, 22.7, 0.0); (  
388875.9, 3742903.4, 22.7, 22.7, 0.0); (  
( 388892.3, 3742903.1, 22.7, 22.7, 0.0); (  
388906.9, 3742902.2, 22.8, 22.8, 0.0); (  
( 388922.3, 3742902.2, 22.9, 22.9, 0.0); (  
388938.1, 3742903.4, 23.0, 23.0, 0.0); (  
( 388952.1, 3742901.6, 23.0, 23.0, 0.0); (  
388967.2, 3742902.2, 23.2, 23.2, 0.0); (  
( 388983.6, 3742902.2, 23.3, 23.3, 0.0); (  
388998.8, 3742902.2, 23.4, 23.4, 0.0); (  
( 389013.0, 3742901.9, 23.5, 23.5, 0.0); (  
389027.6, 3742901.3, 23.6, 23.6, 0.0); (  
( 389043.7, 3742900.4, 23.7, 23.7, 0.0); (  
389056.4, 3742902.8, 23.8, 23.8, 0.0); (  
( 389071.0, 3742896.2, 23.8, 23.8, 0.0); (  
388936.6, 3742858.6, 22.9, 22.9, 0.0); (  
( 388953.0, 3742859.8, 23.0, 23.0, 0.0); (  
388966.6, 3742859.2, 23.0, 23.0, 0.0); (  
( 388981.8, 3742859.5, 23.1, 23.1, 0.0); (  
388997.6, 3742859.2, 23.1, 23.1, 0.0); (  
( 389013.0, 3742858.0, 23.1, 23.1, 0.0); (  
389028.8, 3742858.3, 23.2, 23.2, 0.0); (  
( 389042.5, 3742858.6, 23.4, 23.4, 0.0); (  
389059.7, 3742857.7, 23.6, 23.6, 0.0); (  
( 389087.6, 3742859.2, 23.9, 23.9, 0.0); (  
388889.5, 3742808.3, 21.9, 21.9, 0.0); (  
( 388906.3, 3742813.3, 22.1, 22.1, 0.0); (  
388921.3, 3742815.8, 22.4, 22.4, 0.0); (  
( 388938.1, 3742818.0, 22.6, 22.6, 0.0); (  
388951.6, 3742815.1, 22.7, 22.7, 0.0); (  
( 388967.3, 3742816.9, 22.8, 22.8, 0.0); (  
388983.7, 3742816.5, 22.8, 22.8, 0.0); (  
( 388997.7, 3742815.8, 22.9, 22.9, 0.0); (  
389012.3, 3742817.2, 23.0, 23.0, 0.0); (  
( 389027.6, 3742815.5, 23.0, 23.0, 0.0); (



```

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO  
DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND  
SPEED CATEGORIES \*\*\*  
(METERS/SEC)

1.54, 3.09, 5.14,  
8.23, 10.80,

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:36:04

PAGE 41  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF  
METEOROLOGICAL DATA \*\*\*

Surface file:  
..\LBRiverParkMobileHRA\LongBeachAirportADJU\KLGB\_V9\_ADJU\KLGB\_v9.SFC  
Met Version: 16216  
Profile file:  
..\LBRiverParkMobileHRA\LongBeachAirportADJU\KLGB\_V9\_ADJU\KLGB\_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 23129 Upper air station no.:  
3190 Name: KLGB Name:  
UNKNOWN Year: 2012 Year:  
2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0
BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT					
12	01	01	1	01	-5.3	0.094	-9.000	-9.000	-999.	70.		14.3	0.10
2.68	1.00		1.13	322.		7.9	282.0	2.0					
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0		0.10

2.68	1.00	0.00	0.	7.9	281.4	2.0					
12	01	01	1 03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10
2.68	1.00	0.74	79.	7.9	280.9	2.0					
12	01	01	1 04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10
2.68	1.00	0.86	137.	7.9	280.9	2.0					
12	01	01	1 05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10
2.68	1.00	0.00	0.	7.9	280.4	2.0					
12	01	01	1 06	-5.2	0.093	-9.000	-9.000	-999.	68.	14.0	0.10
2.68	1.00	1.11	92.	7.9	279.9	2.0					
12	01	01	1 07	-2.3	0.066	-9.000	-9.000	-999.	41.	11.5	0.10
2.68	1.00	0.69	67.	7.9	278.8	2.0					
12	01	01	1 08	-1.7	0.060	-9.000	-9.000	-999.	36.	11.4	0.10
2.68	0.54	0.65	91.	7.9	279.9	2.0					
12	01	01	1 09	36.2	-9.000	-9.000	-9.000	37.	-999.	-99999.0	0.10
2.68	0.31	0.00	0.	7.9	283.8	2.0					
12	01	01	1 10	108.4	0.139	0.707	0.009	119.	124.	-2.3	0.10
2.68	0.24	0.92	319.	7.9	287.5	2.0					
12	01	01	1 11	160.5	0.114	1.137	0.005	334.	93.	-1.0	0.10
2.68	0.21	0.62	23.	7.9	292.5	2.0					
12	01	01	1 12	186.7	0.125	1.473	0.005	623.	105.	-1.0	0.10
2.68	0.20	0.69	18.	7.9	295.4	2.0					
12	01	01	1 13	186.8	0.130	1.761	0.005	1065.	112.	-1.1	0.10
2.68	0.20	0.74	250.	7.9	297.5	2.0					
12	01	01	1 14	161.7	0.150	1.834	0.005	1387.	139.	-1.9	0.10
2.68	0.21	0.96	347.	7.9	300.4	2.0					
12	01	01	1 15	105.5	0.243	1.633	0.005	1499.	288.	-12.4	0.10
2.68	0.24	2.11	194.	7.9	295.9	2.0					
12	01	01	1 16	32.4	0.211	1.109	0.005	1530.	233.	-26.3	0.10
2.68	0.33	1.98	186.	7.9	295.4	2.0					
12	01	01	1 17	-20.5	0.250	-9.000	-9.000	-999.	300.	69.2	0.10
2.68	0.60	2.81	293.	7.9	291.4	2.0					
12	01	01	1 18	-25.4	0.257	-9.000	-9.000	-999.	313.	72.8	0.10
2.68	1.00	2.90	301.	7.9	288.1	2.0					
12	01	01	1 19	-21.0	0.211	-9.000	-9.000	-999.	233.	49.0	0.10
2.68	1.00	2.40	313.	7.9	286.4	2.0					
12	01	01	1 20	-25.7	0.258	-9.000	-9.000	-999.	315.	73.3	0.10
2.68	1.00	2.91	302.	7.9	286.4	2.0					
12	01	01	1 21	-22.5	0.225	-9.000	-9.000	-999.	256.	55.7	0.10
2.68	1.00	2.55	306.	7.9	285.4	2.0					
12	01	01	1 22	-9.3	0.126	-9.000	-9.000	-999.	111.	19.5	0.10
2.68	1.00	1.48	284.	7.9	285.9	2.0					
12	01	01	1 23	-21.4	0.214	-9.000	-9.000	-999.	237.	50.3	0.10
2.68	1.00	2.43	282.	7.9	285.4	2.0					
12	01	01	1 24	-30.1	0.300	-9.000	-9.000	-999.	394.	98.9	0.10
2.68	1.00	3.36	300.	7.9	284.2	2.0					

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	322.	1.13	282.1	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long

Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 42

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED  
 OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 ,  
 L0000002 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 ,  
 L0000010 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 ,  
 L0000018 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 ,  
 L0000026 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR  
 POINTS \*\*\*

MICROGRAMS/M**3			** CONC OF DPM	IN
X-COORD (M)	Y-COORD (M)	CONC		X-COORD
388742.23	3743140.16	0.00001		
388742.23	3743130.86	0.00001		
388742.23	3743120.41	0.00001		
388742.23	3743109.95	0.00001		
388742.23	3743099.50	0.00001		
388742.23	3743089.63	0.00001		
388741.65	3743079.75	0.00001		
388742.82	3743069.30	0.00001		
388741.07	3743059.42	0.00001		
388740.49	3743047.23	0.00001		
388739.91	3743038.51	0.00001		
388738.75	3743028.06	0.00001		
388743.40	3742991.47	0.00001		
388740.49	3742971.72	0.00001		
388739.33	3742961.27	0.00001		
388739.33	3742950.81	0.00001		
388743.40	3742939.78	0.00001		
388744.56	3742921.19	0.00001		
388746.88	3742907.25	0.00001		
388758.50	3742891.57	0.00001		
388772.44	3742877.63	0.00001		
388777.08	3742856.72	0.00000		
388839.23	3742781.79	0.00000		
388829.36	3742796.31	0.00000		

388820.06	3742809.09	0.00000	
	388813.09	3742824.19	0.00000
388807.87	3742839.88	0.00000	
	388740.30	3743179.61	0.00001
388741.08	3743215.95	0.00001	
	388751.39	3743215.69	0.00001
388763.24	3743216.72	0.00001	
	388773.04	3743216.72	0.00001
388783.86	3743216.47	0.00000	
	388751.39	3743179.35	0.00001
388761.70	3743179.10	0.00001	
	388773.04	3743178.58	0.00001
388782.57	3743178.58	0.00001	
	388774.35	3743019.57	0.00001
388774.04	3743029.58	0.00001	
	388774.04	3743038.98	0.00001
388773.74	3743048.07	0.00001	
	388773.44	3743057.77	0.00001
388774.04	3743067.17	0.00001	
	388773.44	3743076.57	0.00001
388773.13	3743086.88	0.00001	
	388773.44	3743096.28	0.00001
388773.44	3743106.59	0.00001	
	388773.44	3743116.60	0.00001
388773.74	3743125.69	0.00001	
	388774.04	3743135.40	0.00001
388774.65	3743145.40	0.00001	
	388774.04	3743155.41	0.00001
388773.13	3743165.41	0.00001	
	388904.03	3742775.99	0.00000
388921.65	3742775.15	0.00000	
	388938.44	3742774.73	0.00000
388951.87	3742773.05	0.00000	
	388966.98	3742772.21	0.00000
388982.51	3742773.47	0.00000	
	388997.62	3742772.21	0.00000
388888.50	3742782.71	0.00000	
	388875.07	3742802.85	0.00000
389012.72	3742772.63	0.00000	
	389026.99	3742773.05	0.00000
389044.62	3742773.05	0.00000	
	389057.63	3742775.15	0.00000
389074.42	3742773.05	0.00000	
	389092.46	3742769.28	0.00000
388771.88	3742923.14	0.00001	
	388772.40	3742931.39	0.00001
388773.43	3742941.18	0.00001	
	388773.94	3742951.24	0.00001
388773.69	3742961.03	0.00001	
	388774.72	3742970.57	0.00001
389142.71	3742763.29	0.00000	
	389157.69	3742768.28	0.00000
389173.75	3742773.63	0.00000	

389187.66 3742776.84 0.00000  
 388808.12 3742857.13 0.00000  
 ▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*  
 \*\*\* 14:36:04

PAGE 43

\*\*\* MODELOPTs: RegDFault CONC ELEV RURAL ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED  
 OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 ,  
 L0000002 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 ,  
 L0000010 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 ,  
 L0000018 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 ,  
 L0000026 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

MICROGRAMS/M**3		** CONC OF DPM	IN
X-COORD (M)	Y-COORD (M)	CONC	X-COORD
388807.40	3742873.90	0.00000	
388804.19	3742888.89	0.00000	
388804.19	3742904.23	0.00000	
388804.91	3742919.21	0.00000	
388807.05	3742934.91	0.00000	
388806.33	3742950.25	0.00000	
388805.98	3742965.24	0.00000	
388805.26	3742980.22	0.00000	
388804.91	3742996.63	0.00000	
388806.33	3743010.55	0.00000	
388806.69	3743025.17	0.00000	
388806.69	3743041.58	0.00000	
388805.62	3743057.28	0.00000	
388807.40	3743072.27	0.00000	
388807.05	3743086.89	0.00000	
388808.12	3743101.52	0.00000	
388808.12	3743116.51	0.00000	
388808.83	3743132.92	0.00000	
388809.90	3743148.97	0.00000	
388808.83	3743163.60	0.00000	
388817.39	3743181.08	0.00000	
388829.15	3743195.17	0.00000	

388844.62	3743204.57	0.00000
388858.27	3743215.19	0.00000
389096.40	3742696.75	0.00000
389047.71	3742697.17	0.00000
388993.56	3742696.33	0.00000
388943.19	3742697.17	0.00000
388905.00	3742691.29	0.00000
388887.79	3742689.61	0.00000
388872.67	3742691.29	0.00000
388857.98	3742690.87	0.00000
388849.17	3742705.98	0.00000
388842.03	3742691.71	0.00000
388829.86	3742693.39	0.00000
388815.59	3742696.33	0.00000
388798.38	3742702.21	0.00000
388787.46	3742708.92	0.00000
388783.27	3742693.81	0.00000
388765.22	3742694.65	0.00000
388751.36	3742690.87	0.00000
388739.61	3742703.46	0.00000
388559.54	3742807.98	0.00002
388584.72	3742796.23	0.00002
388610.33	3742785.32	0.00002
388638.03	3742772.30	0.00002
388662.80	3742753.42	0.00001
388685.04	3742748.38	0.00001
388707.29	3742750.06	0.00001
388631.73	3742754.67	0.00001
388593.96	3742751.32	0.00001
388552.40	3742781.54	0.00001
388551.56	3742755.93	0.00001
388855.62	3742837.03	0.00000
388874.12	3742845.83	0.00000
388850.16	3742861.30	0.00000
388849.56	3742894.66	0.00000
388850.16	3742907.40	0.00000
388888.99	3742853.71	0.00000
388904.15	3742859.48	0.00000
388919.92	3742859.48	0.00000
388875.94	3742903.45	0.00000
388892.32	3742903.15	0.00000
388906.88	3742902.24	0.00000
388922.35	3742902.24	0.00000
388938.12	3742903.45	0.00000
388952.07	3742901.63	0.00000
388967.23	3742902.24	0.00000
388983.61	3742902.24	0.00000
388998.78	3742902.24	0.00000
389013.03	3742901.94	0.00000
389027.59	3742901.33	0.00000
389043.66	3742900.42	0.00000
389056.40	3742902.85	0.00000
389070.96	3742896.17	0.00000



```

388936.60    3742858.57    0.00000
              388952.98    3742859.78    0.00000
388966.63    3742859.17    0.00000
              388981.79    3742859.48    0.00000
388997.56    3742859.17    0.00000
^ *** AERMOD - VERSION 21112 ***   *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C ***   12/01/21
*** AERMET - VERSION 16216 ***   ***
***                                     14:36:04

```

PAGE 44

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

```

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED
OVER 5 YEARS FOR SOURCE GROUP: ALL ***
                INCLUDING SOURCE(S): L0000001 ,
L0000002 , L0000003 , L0000004 , L0000005 ,
                L0000006 , L0000007 , L0000008 , L0000009 ,
L0000010 , L0000011 , L0000012 , L0000013 ,
                L0000014 , L0000015 , L0000016 , L0000017 ,
L0000018 , L0000019 , L0000020 , L0000021 ,
                L0000022 , L0000023 , L0000024 , L0000025 ,
L0000026 , L0000027 , L0000028 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

```

** CONC OF DPM      IN
**
MICROGRAMS/M**3
                X-COORD (M)  Y-COORD (M)  CONC      X-COORD
(M)  Y-COORD (M)      CONC
-----
                389013.03    3742857.96    0.00000
389028.80    3742858.26    0.00000
                389042.45    3742858.57    0.00000
389059.74    3742857.66    0.00000
                389087.64    3742859.17    0.00000
388889.54    3742808.33    0.00000
                388906.31    3742813.32    0.00000
388921.30    3742815.82    0.00000
                388938.07    3742817.96    0.00000
388951.63    3742815.11    0.00000
                388967.33    3742816.89    0.00000
388983.74    3742816.54    0.00000
                388997.66    3742815.82    0.00000
389012.29    3742817.25    0.00000
                389027.63    3742815.47    0.00000
389044.40    3742816.54    0.00000
                389059.74    3742815.47    0.00000
389073.30    3742813.68    0.00000
                389098.28    3742816.54    0.00000

```

```

389142.13    3742804.43    0.00000
              389140.03    3742827.10    0.00000
389135.83    3742845.15    0.00000
              389129.53    3742869.92    0.00000
389116.94    3742893.43    0.00000
              389178.23    3742814.09    0.00000
389168.57    3742833.40    0.00000
              389157.24    3742856.49    0.00000
389145.06    3742874.54    0.00000
              389130.79    3742899.73    0.00000
389207.42    3742773.54    0.00000
              389222.54    3742780.68    0.00000

```

```

^ *** AERMOD - VERSION 2112 ***   ***   C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C ***   12/01/21
*** AERMET - VERSION 16216 ***   ***
***                                     14:36:04

```

PAGE 45

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

```

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
          INCLUDING SOURCE(S): L0000001 ,
L0000002 , L0000003 , L0000004 , L0000005 ,
          L0000006 , L0000007 , L0000008 , L0000009 ,
L0000010 , L0000011 , L0000012 , L0000013 ,
          L0000014 , L0000015 , L0000016 , L0000017 ,
L0000018 , L0000019 , L0000020 , L0000021 ,
          L0000022 , L0000023 , L0000024 , L0000025 ,
L0000026 , L0000027 , L0000028 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

```

** CONC OF DPM      IN
MICROGRAMS/M**3    **

```

```

          X-COORD (M) Y-COORD (M)      CONC      (YYMMDDHH)
X-COORD (M) Y-COORD (M)      CONC      (YYMMDDHH)
-----
          388742.82  3743150.61    0.00038 (13012709)
388742.23  3743140.16    0.00033 (13012709)
          388742.23  3743130.86    0.00029 (13012709)
388742.23  3743120.41    0.00029 (13012609)
          388742.23  3743109.95    0.00030 (12121109)
388742.23  3743099.50    0.00032 (12121109)
          388742.23  3743089.63    0.00032 (12121109)
388741.65  3743079.75    0.00032 (12121109)
          388742.82  3743069.30    0.00031 (12121109)
388741.07  3743059.42    0.00030 (12121109)
          388740.49  3743047.23    0.00029 (12121109)

```

388739.91	3743038.51	0.00029	(12121109)
	388738.75	3743028.06	0.00028 (12121109)
388743.40	3742991.47	0.00022	(12121109)
	388740.49	3742971.72	0.00023 (16012909)
388739.33	3742961.27	0.00024	(16012909)
	388739.33	3742950.81	0.00024 (16012909)
388743.40	3742939.78	0.00022	(16012909)
	388744.56	3742921.19	0.00022 (16012909)
388746.88	3742907.25	0.00021	(16012909)
	388758.50	3742891.57	0.00020 (16123009)
388772.44	3742877.63	0.00019	(16123009)
	388777.08	3742856.72	0.00020 (16123009)
388839.23	3742781.79	0.00016	(13012709)
	388829.36	3742796.31	0.00015 (16123109)
388820.06	3742809.09	0.00015	(16123109)
	388813.09	3742824.19	0.00016 (12120209)
388807.87	3742839.88	0.00017	(16123009)
	388740.30	3743179.61	0.00034 (16123109)
388741.08	3743215.95	0.00027	(16123009)
	388751.39	3743215.69	0.00025 (16123009)
388763.24	3743216.72	0.00022	(16123009)
	388773.04	3743216.72	0.00020 (16123009)
388783.86	3743216.47	0.00019	(16123009)
	388751.39	3743179.35	0.00028 (16123109)
388761.70	3743179.10	0.00024	(16123109)
	388773.04	3743178.58	0.00020 (16123109)
388782.57	3743178.58	0.00018	(12120209)
	388774.35	3743019.57	0.00021 (12121109)
388774.04	3743029.58	0.00022	(12121109)
	388774.04	3743038.98	0.00022 (12121109)
388773.74	3743048.07	0.00022	(12121109)
	388773.44	3743057.77	0.00022 (12121109)
388774.04	3743067.17	0.00021	(12121109)
	388773.44	3743076.57	0.00020 (12121109)
388773.13	3743086.88	0.00020	(13012609)
	388773.44	3743096.28	0.00020 (13012609)
388773.44	3743106.59	0.00018	(13012609)
	388773.44	3743116.60	0.00020 (13012709)
388773.74	3743125.69	0.00023	(13012709)
	388774.04	3743135.40	0.00025 (13012709)
388774.65	3743145.40	0.00026	(13012709)
	388774.04	3743155.41	0.00023 (13012709)
388773.13	3743165.41	0.00023	(16123109)
	388904.03	3742775.99	0.00010 (16123109)
388921.65	3742775.15	0.00010	(16123109)
	388938.44	3742774.73	0.00009 (16123109)
388951.87	3742773.05	0.00009	(12121109)
	388966.98	3742772.21	0.00010 (12121109)
388982.51	3742773.47	0.00011	(12121109)
	388997.62	3742772.21	0.00011 (12121109)
388888.50	3742782.71	0.00011	(16123109)
	388875.07	3742802.85	0.00012 (16123109)
389012.72	3742772.63	0.00011	(12121109)

```

389026.99 3742773.05 0.00011 (12121109)
389044.62 3742773.05 0.00010 (12121109)
389057.63 3742775.15 0.00009 (12121109)
389074.42 3742773.05 0.00008 (12011009)
389092.46 3742769.28 0.00008 (12011009)
388771.88 3742923.14 0.00017 (16123009)
388772.40 3742931.39 0.00016 (16123009)
388773.43 3742941.18 0.00016 (16123009)
388773.94 3742951.24 0.00016 (16123009)
388773.69 3742961.03 0.00016 (12121109)
388774.72 3742970.57 0.00017 (12121109)
389142.71 3742763.29 0.00009 (12011009)
389157.69 3742768.28 0.00009 (12011009)
389173.75 3742773.63 0.00009 (12011009)
389187.66 3742776.84 0.00008 (12011009)
388808.12 3742857.13 0.00016 (16123009)
^ *** AERMOD - VERSION 21112 *** *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C *** 12/01/21
*** AERMET - VERSION 16216 *** ***
*** 14:36:04

```

PAGE 46

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

```

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 ,
L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 ,
L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 ,
L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 ,
L0000026 , L0000027 , L0000028 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF DPM IN \*\*

```

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
-----
388807.40 3742873.90 0.00015 (16123009)
388804.19 3742888.89 0.00015 (16123009)
388804.19 3742904.23 0.00014 (16123009)
388804.91 3742919.21 0.00014 (16123009)
388807.05 3742934.91 0.00014 (12121109)
388806.33 3742950.25 0.00015 (12121109)
388805.98 3742965.24 0.00016 (12121109)
388805.26 3742980.22 0.00017 (12121109)

```

388804.91	3742996.63	0.00018	(12121109)
388806.33	3743010.55	0.00018	(12121109)
388806.69	3743025.17	0.00017	(12121109)
388806.69	3743041.58	0.00015	(12121109)
388805.62	3743057.28	0.00015	(13012609)
388807.40	3743072.27	0.00014	(13012609)
388807.05	3743086.89	0.00013	(12010909)
388808.12	3743101.52	0.00014	(13012709)
388808.12	3743116.51	0.00017	(13012709)
388808.83	3743132.92	0.00018	(13012709)
388809.90	3743148.97	0.00015	(16123109)
388808.83	3743163.60	0.00016	(16123109)
388817.39	3743181.08	0.00015	(12120209)
388829.15	3743195.17	0.00016	(12120209)
388844.62	3743204.57	0.00015	(16123009)
388858.27	3743215.19	0.00012	(16123009)
389096.40	3742696.75	0.00010	(12121109)
389047.71	3742697.17	0.00010	(12121109)
388993.56	3742696.33	0.00013	(12010909)
388943.19	3742697.17	0.00017	(12010909)
388905.00	3742691.29	0.00020	(12010909)
388887.79	3742689.61	0.00019	(12010909)
388872.67	3742691.29	0.00019	(12010909)
388857.98	3742690.87	0.00017	(12010909)
388849.17	3742705.98	0.00020	(12010909)
388842.03	3742691.71	0.00018	(12011009)
388829.86	3742693.39	0.00019	(12011009)
388815.59	3742696.33	0.00021	(12011009)
388798.38	3742702.21	0.00023	(12011009)
388787.46	3742708.92	0.00024	(12011009)
388783.27	3742693.81	0.00023	(13012609)
388765.22	3742694.65	0.00022	(13012609)
388751.36	3742690.87	0.00026	(12121109)
388739.61	3742703.46	0.00029	(12121109)
388559.54	3742807.98	0.00064	(14010309)
388584.72	3742796.23	0.00076	(14010309)
388610.33	3742785.32	0.00096	(14010309)
388638.03	3742772.30	0.00126	(14121809)
388662.80	3742753.42	0.00098	(12010209)
388685.04	3742748.38	0.00053	(12121109)
388707.29	3742750.06	0.00046	(13012609)
388631.73	3742754.67	0.00083	(14121809)
388593.96	3742751.32	0.00047	(14012209)
388552.40	3742781.54	0.00044	(14010309)
388551.56	3742755.93	0.00035	(14010309)
388855.62	3742837.03	0.00013	(16123009)
388874.12	3742845.83	0.00012	(16123009)
388850.16	3742861.30	0.00013	(16123009)
388849.56	3742894.66	0.00012	(12121109)
388850.16	3742907.40	0.00013	(12121109)
388888.99	3742853.71	0.00011	(16123009)
388904.15	3742859.48	0.00012	(12121109)
388919.92	3742859.48	0.00012	(12121109)

```

388875.94  3742903.45      0.00013  (12121109)
           388892.32  3742903.15      0.00013  (12121109)
388906.88  3742902.24      0.00012  (12121109)
           388922.35  3742902.24      0.00011  (12121109)
388938.12  3742903.45      0.00009  (12121109)
           388952.07  3742901.63      0.00010  (12011009)
388967.23  3742902.24      0.00010  (12011009)
           388983.61  3742902.24      0.00010  (12011009)
388998.78  3742902.24      0.00010  (12011009)
           389013.03  3742901.94      0.00010  (12011009)
389027.59  3742901.33      0.00010  (12011009)
           389043.66  3742900.42      0.00009  (12011009)
389056.40  3742902.85      0.00008  (12011009)
           389070.96  3742896.17      0.00008  (12011009)
388936.60  3742858.57      0.00012  (12121109)
           388952.98  3742859.78      0.00011  (12121109)
388966.63  3742859.17      0.00010  (12121109)
           388981.79  3742859.48      0.00009  (12121109)
388997.56  3742859.17      0.00009  (12011009)
^ *** AERMOD - VERSION 21112 ***   *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C ***   12/01/21
*** AERMET - VERSION 16216 ***   ***
***                                     14:36:04

```

PAGE 47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

```

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
          INCLUDING SOURCE(S): L0000001 ,
L0000002 , L0000003 , L0000004 , L0000005 ,
          L0000006 , L0000007 , L0000008 , L0000009 ,
L0000010 , L0000011 , L0000012 , L0000013 ,
          L0000014 , L0000015 , L0000016 , L0000017 ,
L0000018 , L0000019 , L0000020 , L0000021 ,
          L0000022 , L0000023 , L0000024 , L0000025 ,
L0000026 , L0000027 , L0000028 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

```

** CONC OF DPM      IN
**
MICROGRAMS/M**3

          X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)
X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)
-----
          389013.03  3742857.96      0.00009  (12011009)
389028.80  3742858.26      0.00009  (12011009)
          389042.45  3742858.57      0.00010  (12011009)
389059.74  3742857.66      0.00010  (12011009)
          389087.64  3742859.17      0.00009  (12011009)

```

388889.54	3742808.33	0.00011	(16123109)
	388906.31	3742813.32	0.00010 (14011809)
388921.30	3742815.82	0.00010	(12121109)
	388938.07	3742817.96	0.00011 (12121109)
388951.63	3742815.11	0.00011	(12121109)
	388967.33	3742816.89	0.00012 (12121109)
388983.74	3742816.54	0.00011	(12121109)
	388997.66	3742815.82	0.00011 (12121109)
389012.29	3742817.25	0.00009	(12121109)
	389027.63	3742815.47	0.00008 (12121109)
389044.40	3742816.54	0.00008	(12011009)
	389059.74	3742815.47	0.00009 (12011009)
389073.30	3742813.68	0.00009	(12011009)
	389098.28	3742816.54	0.00009 (12011009)
389142.13	3742804.43	0.00009	(12011009)
	389140.03	3742827.10	0.00008 (12011009)
389135.83	3742845.15	0.00008	(12011009)
	389129.53	3742869.92	0.00007 (12120209)
389116.94	3742893.43	0.00008	(12010909)
	389178.23	3742814.09	0.00007 (12011009)
389168.57	3742833.40	0.00007	(12011009)
	389157.24	3742856.49	0.00007 (12120209)
389145.06	3742874.54	0.00008	(12010909)
	389130.79	3742899.73	0.00008 (12010909)
389207.42	3742773.54	0.00008	(12011009)
	389222.54	3742780.68	0.00007 (12011009)

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\ckirikian\Documents\Long  
 Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:36:04

PAGE 48

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE  
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 ,  
 L0000002 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 ,  
 L0000010 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 ,  
 L0000018 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 ,  
 L0000026 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF DPM IN \*\*

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
388742.82	3743150.61	0.00011	(13012716)
388742.23	3743140.16	0.00011	(13012716)
388742.23	3743130.86	0.00011	(16123116)
388742.23	3743120.41	0.00011	(16123116)
388742.23	3743109.95	0.00010	(16123116)
388742.23	3743099.50	0.00010	(16123116)
388742.23	3743089.63	0.00010	(16123116)
388741.65	3743079.75	0.00011	(16123116)
388742.82	3743069.30	0.00010	(16123116)
388741.07	3743059.42	0.00011	(16123116)
388740.49	3743047.23	0.00011	(16123116)
388739.91	3743038.51	0.00011	(16123116)
388738.75	3743028.06	0.00011	(16123116)
388743.40	3742991.47	0.00010	(16123116)
388740.49	3742971.72	0.00011	(16123116)
388739.33	3742961.27	0.00011	(16123116)
388739.33	3742950.81	0.00010	(16123116)
388743.40	3742939.78	0.00010	(16123116)
388744.56	3742921.19	0.00009	(16123116)
388746.88	3742907.25	0.00008	(12121316)
388758.50	3742891.57	0.00007	(12121316)
388772.44	3742877.63	0.00007	(16101616)
388777.08	3742856.72	0.00007	(16101616)
388839.23	3742781.79	0.00004	(12111816)
388829.36	3742796.31	0.00004	(12111816)
388820.06	3742809.09	0.00004	(16021816)
388813.09	3742824.19	0.00005	(16101616)
388807.87	3742839.88	0.00005	(16101616)
388740.30	3743179.61	0.00013	(16123116)
388741.08	3743215.95	0.00010	(13112116)
388751.39	3743215.69	0.00009	(13112116)
388763.24	3743216.72	0.00008	(13112116)
388773.04	3743216.72	0.00007	(13112116)
388783.86	3743216.47	0.00007	(13112116)
388751.39	3743179.35	0.00011	(16123116)
388761.70	3743179.10	0.00010	(16123116)
388773.04	3743178.58	0.00009	(16123116)
388782.57	3743178.58	0.00008	(16123116)
388774.35	3743019.57	0.00007	(16123116)
388774.04	3743029.58	0.00007	(16123116)
388774.04	3743038.98	0.00007	(16123116)
388773.74	3743048.07	0.00008	(16123116)
388773.44	3743057.77	0.00008	(16123116)
388774.04	3743067.17	0.00008	(16123116)
388773.44	3743076.57	0.00008	(16123116)
388773.13	3743086.88	0.00008	(16123116)
388773.44	3743096.28	0.00008	(16123116)
388773.44	3743106.59	0.00008	(16123116)
388773.44	3743116.60	0.00008	(16123116)
388773.74	3743125.69	0.00008	(16123116)



```

388774.04 3743135.40 0.00008 (13012716)
388774.65 3743145.40 0.00008 (16123116)
388774.04 3743155.41 0.00009 (16123116)
388773.13 3743165.41 0.00009 (16123116)
388904.03 3742775.99 0.00003 (16021816)
388921.65 3742775.15 0.00003 (16021816)
388938.44 3742774.73 0.00002 (16021816)
388951.87 3742773.05 0.00002 (16021816)
388966.98 3742772.21 0.00002 (16021816)
388982.51 3742773.47 0.00002 (16021816)
388997.62 3742772.21 0.00002 (16021816)
388888.50 3742782.71 0.00003 (16021816)
388875.07 3742802.85 0.00003 (16021816)
389012.72 3742772.63 0.00002 (16021816)
389026.99 3742773.05 0.00002 (16021816)
389044.62 3742773.05 0.00002 (16021816)
389057.63 3742775.15 0.00002 (16021816)
389074.42 3742773.05 0.00001 (16021816)
389092.46 3742769.28 0.00001 (16021816)
388771.88 3742923.14 0.00006 (13112116)
388772.40 3742931.39 0.00006 (13112116)
388773.43 3742941.18 0.00006 (13112116)
388773.94 3742951.24 0.00006 (13012716)
388773.69 3742961.03 0.00007 (13012716)
388774.72 3742970.57 0.00007 (16123116)
389142.71 3742763.29 0.00001 (16021816)
389157.69 3742768.28 0.00001 (12011016)
389173.75 3742773.63 0.00001 (12011016)
389187.66 3742776.84 0.00001 (12011016)
388808.12 3742857.13 0.00005 (16101616)
^ *** AERMOD - VERSION 21112 *** ** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C *** 12/01/21
*** AERMET - VERSION 16216 *** **
*** 14:36:04

```

PAGE 49

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

```

*** THE 1ST HIGHEST 8-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 ,
L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 ,
L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 ,
L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 ,
L0000026 , L0000027 , L0000028 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

\*\* CONC OF DPM IN

MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
388807.40	3742873.90	0.00005	(16101616)
388804.19	3742888.89	0.00005	(16101616)
388804.19	3742904.23	0.00005	(16101616)
388804.91	3742919.21	0.00005	(16101616)
388807.05	3742934.91	0.00005	(13112116)
388806.33	3742950.25	0.00005	(13112116)
388805.98	3742965.24	0.00005	(13112116)
388805.26	3742980.22	0.00005	(13112116)
388804.91	3742996.63	0.00005	(13112116)
388806.33	3743010.55	0.00005	(16123116)
388806.69	3743025.17	0.00005	(16123116)
388806.69	3743041.58	0.00005	(16123116)
388805.62	3743057.28	0.00006	(16123116)
388807.40	3743072.27	0.00006	(16123116)
388807.05	3743086.89	0.00006	(16123116)
388808.12	3743101.52	0.00006	(16123116)
388808.12	3743116.51	0.00006	(13012716)
388808.83	3743132.92	0.00006	(16123116)
388809.90	3743148.97	0.00007	(16123116)
388808.83	3743163.60	0.00007	(16123116)
388817.39	3743181.08	0.00006	(16123116)
388829.15	3743195.17	0.00005	(12121816)
388844.62	3743204.57	0.00004	(13112116)
388858.27	3743215.19	0.00004	(13112116)
389096.40	3742696.75	0.00002	(12111816)
389047.71	3742697.17	0.00002	(12111816)
388993.56	3742696.33	0.00002	(12111816)
388943.19	3742697.17	0.00003	(12111816)
388905.00	3742691.29	0.00003	(12010916)
388887.79	3742689.61	0.00003	(12010916)
388872.67	3742691.29	0.00003	(12010916)
388857.98	3742690.87	0.00003	(15020816)
388849.17	3742705.98	0.00003	(15020816)
388842.03	3742691.71	0.00003	(12010816)
388829.86	3742693.39	0.00004	(12010816)
388815.59	3742696.33	0.00004	(12010816)
388798.38	3742702.21	0.00005	(12010816)
388787.46	3742708.92	0.00005	(12010816)
388783.27	3742693.81	0.00005	(14011616)
388765.22	3742694.65	0.00006	(14011616)
388751.36	3742690.87	0.00006	(14011616)
388739.61	3742703.46	0.00007	(14011616)
388559.54	3742807.98	0.00025	(15011016)
388584.72	3742796.23	0.00025	(15011016)
388610.33	3742785.32	0.00025	(12122516)
388638.03	3742772.30	0.00029	(13112916)
388662.80	3742753.42	0.00017	(16112416)

```

388685.04  3742748.38      0.00013  (15010516)
           388707.29  3742750.06      0.00013  (14011616)
388631.73  3742754.67      0.00018  (13112916)
           388593.96  3742751.32      0.00011  (16011016)
388552.40  3742781.54      0.00013  (15011016)
           388551.56  3742755.93      0.00009  (12122916)
388855.62  3742837.03      0.00004  (16101616)
           388874.12  3742845.83      0.00004  (16101616)
388850.16  3742861.30      0.00004  (16101616)
           388849.56  3742894.66      0.00004  (16101616)
388850.16  3742907.40      0.00004  (16101616)
           388888.99  3742853.71      0.00003  (16101616)
388904.15  3742859.48      0.00003  (16101616)
           388919.92  3742859.48      0.00003  (16101616)
388875.94  3742903.45      0.00003  (16101616)
           388892.32  3742903.15      0.00003  (16101616)
388906.88  3742902.24      0.00003  (16101616)
           388922.35  3742902.24      0.00003  (16101616)
388938.12  3742903.45      0.00003  (16101616)
           388952.07  3742901.63      0.00002  (16101616)
388967.23  3742902.24      0.00002  (16101616)
           388983.61  3742902.24      0.00002  (16101616)
388998.78  3742902.24      0.00002  (16101616)
           389013.03  3742901.94      0.00002  (16101616)
389027.59  3742901.33      0.00002  (16101616)
           389043.66  3742900.42      0.00002  (15122216)
389056.40  3742902.85      0.00002  (15122216)
           389070.96  3742896.17      0.00002  (15122216)
388936.60  3742858.57      0.00003  (16101616)
           388952.98  3742859.78      0.00003  (16101616)
388966.63  3742859.17      0.00002  (16101616)
           388981.79  3742859.48      0.00002  (16101616)
388997.56  3742859.17      0.00002  (16101616)

```

```

^ *** AERMOD - VERSION 21112 *** *** C:\Users\ckirikian\Documents\Long
Beach River Park\ConstructionHRA\C *** 12/01/21
*** AERMET - VERSION 16216 *** ***
*** 14:36:04

```

PAGE 50

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ\_U\*

```

*** THE 1ST HIGHEST 8-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 ,
L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 ,
L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 ,
L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 ,
L0000026 , L0000027 , L0000028 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR



```

L0000010 , L0000006 , L0000007 , L0000008 , L0000009 ,
, L0000011 , L0000012 , L0000013 ,
L0000018 , L0000014 , L0000015 , L0000016 , L0000017 ,
, L0000019 , L0000020 , L0000021 ,
L0000026 , L0000022 , L0000023 , L0000024 , L0000025 ,
, L0000027 , L0000028 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

MICROGRAMS/M**3		** CONC OF DPM	IN
X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
388742.82	3743150.61	0.00005m	(16123124)
388742.23	3743140.16	0.00005m	(16123124)
388742.23	3743130.86	0.00005m	(16123124)
388742.23	3743120.41	0.00005m	(16123124)
388742.23	3743109.95	0.00005m	(16123124)
388742.23	3743099.50	0.00005m	(16123124)
388742.23	3743089.63	0.00005m	(16123124)
388741.65	3743079.75	0.00005m	(16123124)
388742.82	3743069.30	0.00005m	(16123124)
388741.07	3743059.42	0.00005m	(16123124)
388740.49	3743047.23	0.00005m	(16123124)
388739.91	3743038.51	0.00005m	(16123124)
388738.75	3743028.06	0.00005m	(16123124)
388743.40	3742991.47	0.00005m	(16123124)
388740.49	3742971.72	0.00005m	(16123124)
388739.33	3742961.27	0.00005m	(16123124)
388739.33	3742950.81	0.00005m	(16123124)
388743.40	3742939.78	0.00004m	(16123124)
388744.56	3742921.19	0.00004m	(16123124)
388746.88	3742907.25	0.00004m	(16123124)
388758.50	3742891.57	0.00003m	(16123124)
388772.44	3742877.63	0.00002	(16101624)
388777.08	3742856.72	0.00002	(16101624)
388839.23	3742781.79	0.00001	(12111824)
388829.36	3742796.31	0.00001	(12111824)
388820.06	3742809.09	0.00001	(16021824)
388813.09	3742824.19	0.00002	(16101624)
388807.87	3742839.88	0.00002	(16101624)
388740.30	3743179.61	0.00006m	(16123124)
388741.08	3743215.95	0.00004m	(16123124)
388751.39	3743215.69	0.00003m	(16123124)
388763.24	3743216.72	0.00003m	(16123124)
388773.04	3743216.72	0.00003m	(16123124)
388783.86	3743216.47	0.00003m	(16123124)
388751.39	3743179.35	0.00005m	(16123124)
388761.70	3743179.10	0.00004m	(16123124)

388773.04	3743178.58	0.00004m	(16123124)
388782.57	3743178.58	0.00004m	(16123124)
388774.35	3743019.57	0.00003m	(16123124)
388774.04	3743029.58	0.00003m	(16123124)
388774.04	3743038.98	0.00003m	(16123124)
388773.74	3743048.07	0.00003m	(16123124)
388773.44	3743057.77	0.00003m	(16123124)
388774.04	3743067.17	0.00003m	(16123124)
388773.44	3743076.57	0.00003m	(16123124)
388773.13	3743086.88	0.00003m	(16123124)
388773.44	3743096.28	0.00003m	(16123124)
388773.44	3743106.59	0.00003m	(16123124)
388773.44	3743116.60	0.00003m	(16123124)
388773.74	3743125.69	0.00003m	(16123124)
388774.04	3743135.40	0.00004m	(16123124)
388774.65	3743145.40	0.00004m	(16123124)
388774.04	3743155.41	0.00004m	(16123124)
388773.13	3743165.41	0.00004m	(16123124)
388904.03	3742775.99	0.00001	(16021824)
388921.65	3742775.15	0.00001	(16021824)
388938.44	3742774.73	0.00001	(16021824)
388951.87	3742773.05	0.00001	(16021824)
388966.98	3742772.21	0.00001	(16021824)
388982.51	3742773.47	0.00001	(16021824)
388997.62	3742772.21	0.00001	(16021824)
388888.50	3742782.71	0.00001	(16021824)
388875.07	3742802.85	0.00001	(16021824)
389012.72	3742772.63	0.00001	(16021824)
389026.99	3742773.05	0.00001	(16021824)
389044.62	3742773.05	0.00001	(16021824)
389057.63	3742775.15	0.00001	(16021824)
389074.42	3742773.05	0.00000	(16021824)
389092.46	3742769.28	0.00000	(16021824)
388771.88	3742923.14	0.00002m	(16123124)
388772.40	3742931.39	0.00003m	(16123124)
388773.43	3742941.18	0.00003m	(16123124)
388773.94	3742951.24	0.00003m	(16123124)
388773.69	3742961.03	0.00003m	(16123124)
388774.72	3742970.57	0.00003m	(16123124)
389142.71	3742763.29	0.00000m	(12011024)
389157.69	3742768.28	0.00000m	(12011024)
389173.75	3742773.63	0.00000m	(12011024)
389187.66	3742776.84	0.00000m	(12011024)
388808.12	3742857.13	0.00002	(16101624)
▲ *** AERMOD - VERSION 21112 *** ** C:\Users\ckirikian\Documents\Long			
Beach River Park\ConstructionHRA\C ***			12/01/21
*** AERMET - VERSION 16216 *** **			
***			14:36:04

PAGE 52

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE

CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 ,  
 L0000002 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 ,  
 L0000010 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 ,  
 L0000018 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 ,  
 L0000026 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

MICROGRAMS/M**3		** CONC OF DPM	IN
X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
388807.40	3742873.90	0.00002	(16101624)
388804.19	3742888.89	0.00002	(16101624)
388804.19	3742904.23	0.00002	(16101624)
388804.91	3742919.21	0.00002c	(12121824)
388807.05	3742934.91	0.00002m	(16123124)
388806.33	3742950.25	0.00002m	(16123124)
388805.98	3742965.24	0.00002m	(16123124)
388805.26	3742980.22	0.00002m	(16123124)
388804.91	3742996.63	0.00002m	(16123124)
388806.33	3743010.55	0.00002m	(16123124)
388806.69	3743025.17	0.00002m	(16123124)
388806.69	3743041.58	0.00002m	(16123124)
388805.62	3743057.28	0.00002m	(16123124)
388807.40	3743072.27	0.00002m	(16123124)
388807.05	3743086.89	0.00003m	(16123124)
388808.12	3743101.52	0.00003m	(16123124)
388808.12	3743116.51	0.00003m	(16123124)
388808.83	3743132.92	0.00003m	(16123124)
388809.90	3743148.97	0.00003m	(16123124)
388808.83	3743163.60	0.00003m	(16123124)
388817.39	3743181.08	0.00002m	(16123124)
388829.15	3743195.17	0.00002m	(16123124)
388844.62	3743204.57	0.00002m	(16123124)
388858.27	3743215.19	0.00002m	(16123124)
389096.40	3742696.75	0.00001	(12111824)
389047.71	3742697.17	0.00001	(12111824)
388993.56	3742696.33	0.00001	(12111824)
388943.19	3742697.17	0.00001	(12111824)
388905.00	3742691.29	0.00001c	(12010924)
388887.79	3742689.61	0.00001c	(12010924)
388872.67	3742691.29	0.00001c	(12010924)
388857.98	3742690.87	0.00001	(15020824)
388849.17	3742705.98	0.00001	(15020824)

388842.03	3742691.71	0.00001	(12010824)
	388829.86	3742693.39	0.00001 (12010824)
388815.59	3742696.33	0.00001	(12010824)
	388798.38	3742702.21	0.00002 (12010824)
388787.46	3742708.92	0.00002	(12010824)
	388783.27	3742693.81	0.00002 (14011624)
388765.22	3742694.65	0.00002	(14011624)
	388751.36	3742690.87	0.00002 (14011624)
388739.61	3742703.46	0.00002	(14011624)
	388559.54	3742807.98	0.00008 (15011024)
388584.72	3742796.23	0.00008	(15011024)
	388610.33	3742785.32	0.00009c (16122224)
388638.03	3742772.30	0.00010	(13112924)
	388662.80	3742753.42	0.00006c (12010224)
388685.04	3742748.38	0.00004	(15010524)
	388707.29	3742750.06	0.00004 (14011624)
388631.73	3742754.67	0.00006	(13112924)
	388593.96	3742751.32	0.00004c (12122524)
388552.40	3742781.54	0.00005c	(16122224)
	388551.56	3742755.93	0.00003c (16122224)
388855.62	3742837.03	0.00001c	(12121824)
	388874.12	3742845.83	0.00001c (12121824)
388850.16	3742861.30	0.00001	(16101624)
	388849.56	3742894.66	0.00001 (16101624)
388850.16	3742907.40	0.00001	(16101624)
	388888.99	3742853.71	0.00001c (12121824)
388904.15	3742859.48	0.00001c	(12121824)
	388919.92	3742859.48	0.00001c (12121824)
388875.94	3742903.45	0.00001c	(12121824)
	388892.32	3742903.15	0.00001c (12121824)
388906.88	3742902.24	0.00001c	(12121824)
	388922.35	3742902.24	0.00001c (12121824)
388938.12	3742903.45	0.00001c	(12121824)
	388952.07	3742901.63	0.00001c (12121824)
388967.23	3742902.24	0.00001c	(12121824)
	388983.61	3742902.24	0.00001c (12121824)
388998.78	3742902.24	0.00001c	(12121824)
	389013.03	3742901.94	0.00001c (12121824)
389027.59	3742901.33	0.00001c	(12121824)
	389043.66	3742900.42	0.00001c (12121824)
389056.40	3742902.85	0.00001c	(12121824)
	389070.96	3742896.17	0.00001c (12121824)
388936.60	3742858.57	0.00001c	(12121824)
	388952.98	3742859.78	0.00001c (12121824)
388966.63	3742859.17	0.00001c	(12121824)
	388981.79	3742859.48	0.00001c (12121824)
388997.56	3742859.17	0.00001c	(12121824)
▲ *** AERMOD - VERSION 21112 *** ** C:\Users\ckirikian\Documents\Long			
Beach River Park\ConstructionHRA\C *** 12/01/21			
*** AERMET - VERSION 16216 *** **			
*** 14:36:04			



\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): L0000001 ,  
L0000002 , L0000003 , L0000004 , L0000005 ,  
L0000006 , L0000007 , L0000008 , L0000009 ,  
L0000010 , L0000011 , L0000012 , L0000013 ,  
L0000014 , L0000015 , L0000016 , L0000017 ,  
L0000018 , L0000019 , L0000020 , L0000021 ,  
L0000022 , L0000023 , L0000024 , L0000025 ,  
L0000026 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR

POINTS \*\*\*

MICROGRAMS/M***3		** CONC OF DPM IN	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
389013.03	3742857.96	0.00001c	(12121824)
389028.80	3742858.26	0.00001c	(12121824)
389042.45	3742858.57	0.00001c	(12121824)
389059.74	3742857.66	0.00001c	(12121824)
389087.64	3742859.17	0.00001c	(12121824)
388889.54	3742808.33	0.00001	(16021824)
388906.31	3742813.32	0.00001c	(12121824)
388921.30	3742815.82	0.00001c	(12121824)
388938.07	3742817.96	0.00001c	(12121824)
388951.63	3742815.11	0.00001c	(12121824)
388967.33	3742816.89	0.00001c	(12121824)
388983.74	3742816.54	0.00001c	(12121824)
388997.66	3742815.82	0.00001c	(12121824)
389012.29	3742817.25	0.00001c	(12121824)
389027.63	3742815.47	0.00001c	(12121824)
389044.40	3742816.54	0.00001c	(12121824)
389059.74	3742815.47	0.00001c	(12121824)
389073.30	3742813.68	0.00001c	(12121824)
389098.28	3742816.54	0.00000c	(12121824)
389142.13	3742804.43	0.00000m	(12011024)
389140.03	3742827.10	0.00000c	(12121824)
389135.83	3742845.15	0.00001c	(12121824)
389129.53	3742869.92	0.00001c	(12121824)
389116.94	3742893.43	0.00001c	(12121824)
389178.23	3742814.09	0.00000c	(12121824)
389168.57	3742833.40	0.00000c	(12121824)
389157.24	3742856.49	0.00000c	(12121824)
389145.06	3742874.54	0.00001c	(12121824)
389130.79	3742899.73	0.00001c	(12121824)
389207.42	3742773.54	0.00000m	(12011024)

389222.54 3742780.68 0.00000m (12011024)

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:36:04

PAGE 54

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS  
AVERAGED OVER 5 YEARS \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

\*\*

GROUP ID	NETWORK	RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE	AVERAGE CONC	GRID-ID
-----		

ALL	1ST HIGHEST VALUE IS	0.00002 AT ( 388610.33, 3742785.32,
19.20,	19.20, 0.00) DC	
	2ND HIGHEST VALUE IS	0.00002 AT ( 388584.72, 3742796.23,
19.13,	19.13, 0.00) DC	
	3RD HIGHEST VALUE IS	0.00002 AT ( 388638.03, 3742772.30,
19.18,	19.18, 0.00) DC	
	4TH HIGHEST VALUE IS	0.00002 AT ( 388559.54, 3742807.98,
19.00,	19.00, 0.00) DC	
	5TH HIGHEST VALUE IS	0.00001 AT ( 388742.23, 3743130.86,
23.37,	23.37, 0.00) DC	
	6TH HIGHEST VALUE IS	0.00001 AT ( 388742.23, 3743120.41,
23.26,	23.26, 0.00) DC	
	7TH HIGHEST VALUE IS	0.00001 AT ( 388742.23, 3743140.16,
23.47,	23.47, 0.00) DC	
	8TH HIGHEST VALUE IS	0.00001 AT ( 388742.23, 3743109.95,
23.15,	23.15, 0.00) DC	
	9TH HIGHEST VALUE IS	0.00001 AT ( 388742.23, 3743099.50,
23.04,	23.04, 0.00) DC	
	10TH HIGHEST VALUE IS	0.00001 AT ( 388741.65, 3743079.75,
22.82,	22.82, 0.00) DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* 14:36:04

PAGE 55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST

1-HR RESULTS \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

\*\*

GROUP ID	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	DATE (YYMMDDHH)	NETWORK GRID-ID
-----	-----	-----	-----	-----

ALL HIGH 1ST HIGH VALUE IS 0.00126 ON 14121809: AT (388638.03, 3742772.30, 19.18, 19.18, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLR DC = DISCCART DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\ckirikian\Documents\Long Beach River Park\ConstructionHRA\C \*\*\* 12/01/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 14:36:04

PAGE 56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST

8-HR RESULTS \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

\*\*

GROUP ID	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	DATE (YYMMDDHH)	NETWORK GRID-ID
-----	-----	-----	-----	-----

ALL HIGH 1ST HIGH VALUE IS 0.00029 ON 13112916: AT (388638.03, 3742772.30, 19.18, 19.18, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:36:04

PAGE 57

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST  
24-HR RESULTS \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

\*\*

GROUP ID	AVERAGE CONC	DATE
RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	(YYMMDDHH) GRID-ID
-----		
-----		

ALL HIGH 1ST HIGH VALUE IS 0.00010 ON 13112924: AT (  
388638.03, 3742772.30, 19.18, 19.18, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\ckirikian\Documents\Long  
Beach River Park\ConstructionHRA\C \*\*\* 12/01/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:36:04

PAGE 58

\*\*\* MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1017 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified ( 0.62 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 971 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold  
used 0.50  
ME W187 971 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in  
AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

\* AERMOD (21112 ): C:\Users\ckirikian\Documents\Long Beach River  
 Park\ConstructionHRA\C 12/14/21

\* AERMET ( 16216):  
 12:20:22

\* MODELING OPTIONS USED: RegDEFAULT CONC ELEV RURAL ADJ\_U\*  
 \* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP:  
 ALL  
 \* FOR A TOTAL OF 191 RECEPTORS.  
 \* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

* GRP	X NUM YRS	Y NET ID	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE
	388742.82000	3743150.61000	0.00811	23.59	23.59	0.00	ANNUAL ALL
	00000005						
	388742.23000	3743140.16000	0.00883	23.47	23.47	0.00	ANNUAL ALL
	00000005						
	388742.23000	3743130.86000	0.00949	23.37	23.37	0.00	ANNUAL ALL
	00000005						
	388742.23000	3743120.41000	0.01029	23.26	23.26	0.00	ANNUAL ALL
	00000005						
	388742.23000	3743109.95000	0.01112	23.15	23.15	0.00	ANNUAL ALL
	00000005						
	388742.23000	3743099.50000	0.01196	23.04	23.04	0.00	ANNUAL ALL
	00000005						
	388742.23000	3743089.63000	0.01273	22.93	22.93	0.00	ANNUAL ALL
	00000005						
	388741.65000	3743079.75000	0.01356	22.82	22.82	0.00	ANNUAL ALL
	00000005						
	388742.82000	3743069.30000	0.01408	22.72	22.72	0.00	ANNUAL ALL
	00000005						
	388741.07000	3743059.42000	0.01500	22.60	22.60	0.00	ANNUAL ALL
	00000005						
	388740.49000	3743047.23000	0.01577	22.46	22.46	0.00	ANNUAL ALL
	00000005						
	388739.91000	3743038.51000	0.01629	22.36	22.36	0.00	ANNUAL ALL
	00000005						
	388738.75000	3743028.06000	0.01693	22.23	22.23	0.00	ANNUAL ALL
	00000005						
	388743.40000	3742991.47000	0.01710	21.90	21.90	0.00	ANNUAL ALL
	00000005						
	388740.49000	3742971.72000	0.01783	21.65	21.65	0.00	ANNUAL ALL
	00000005						
	388739.33000	3742961.27000	0.01809	21.53	21.53	0.00	ANNUAL ALL
	00000005						
	388739.33000	3742950.81000	0.01810	21.41	21.41	0.00	ANNUAL ALL
	00000005						
	388743.40000	3742939.78000	0.01746	21.36	21.36	0.00	ANNUAL ALL

00000005								
388744.56000	3742921.19000	0.01720	21.37	21.37	0.00	ANNUAL	ALL	
00000005								
388746.88000	3742907.25000	0.01675	21.41	21.41	0.00	ANNUAL	ALL	
00000005								
388758.50000	3742891.57000	0.01520	21.56	21.56	0.00	ANNUAL	ALL	
00000005								
388772.44000	3742877.63000	0.01367	21.74	21.74	0.00	ANNUAL	ALL	
00000005								
388777.08000	3742856.72000	0.01294	21.80	21.80	0.00	ANNUAL	ALL	
00000005								
388839.23000	3742781.79000	0.00818	21.30	21.30	0.00	ANNUAL	ALL	
00000005								
388829.36000	3742796.31000	0.00884	21.45	21.45	0.00	ANNUAL	ALL	
00000005								
388820.06000	3742809.09000	0.00948	21.59	21.59	0.00	ANNUAL	ALL	
00000005								
388813.09000	3742824.19000	0.01011	21.75	21.75	0.00	ANNUAL	ALL	
00000005								
388807.87000	3742839.88000	0.01065	21.92	21.92	0.00	ANNUAL	ALL	
00000005								
388740.30000	3743179.61000	0.00698	23.87	23.87	0.00	ANNUAL	ALL	
00000005								
388741.08000	3743215.95000	0.00591	24.27	24.27	0.00	ANNUAL	ALL	
00000005								
388751.39000	3743215.69000	0.00534	24.40	24.40	0.00	ANNUAL	ALL	
00000005								
388763.24000	3743216.72000	0.00476	24.56	24.56	0.00	ANNUAL	ALL	
00000005								
388773.04000	3743216.72000	0.00436	24.69	24.69	0.00	ANNUAL	ALL	
00000005								
388783.86000	3743216.47000	0.00398	24.83	24.83	0.00	ANNUAL	ALL	
00000005								
388751.39000	3743179.35000	0.00621	24.01	24.01	0.00	ANNUAL	ALL	
00000005								
388761.70000	3743179.10000	0.00560	24.14	24.14	0.00	ANNUAL	ALL	
00000005								
388773.04000	3743178.58000	0.00504	24.29	24.29	0.00	ANNUAL	ALL	
00000005								
388782.57000	3743178.58000	0.00462	24.41	24.41	0.00	ANNUAL	ALL	
00000005								
388774.35000	3743019.57000	0.01203	22.61	22.61	0.00	ANNUAL	ALL	
00000005								
388774.04000	3743029.58000	0.01168	22.71	22.71	0.00	ANNUAL	ALL	
00000005								
388774.04000	3743038.98000	0.01128	22.81	22.81	0.00	ANNUAL	ALL	
00000005								
388773.74000	3743048.07000	0.01090	22.90	22.90	0.00	ANNUAL	ALL	
00000005								
388773.44000	3743057.77000	0.01046	23.00	23.00	0.00	ANNUAL	ALL	

00000005								
388774.04000	3743067.17000	0.00990	23.11	23.11	0.00	ANNUAL	ALL	
00000005								
388773.44000	3743076.57000	0.00946	23.20	23.20	0.00	ANNUAL	ALL	
00000005								
388773.13000	3743086.88000	0.00891	23.31	23.31	0.00	ANNUAL	ALL	
00000005								
388773.44000	3743096.28000	0.00835	23.41	23.41	0.00	ANNUAL	ALL	
00000005								
388773.44000	3743106.59000	0.00779	23.52	23.52	0.00	ANNUAL	ALL	
00000005								
388773.44000	3743116.60000	0.00726	23.63	23.63	0.00	ANNUAL	ALL	
00000005								
388773.74000	3743125.69000	0.00680	23.73	23.73	0.00	ANNUAL	ALL	
00000005								
388774.04000	3743135.40000	0.00635	23.84	23.84	0.00	ANNUAL	ALL	
00000005								
388774.65000	3743145.40000	0.00592	23.95	23.95	0.00	ANNUAL	ALL	
00000005								
388774.04000	3743155.41000	0.00561	24.05	24.05	0.00	ANNUAL	ALL	
00000005								
388773.13000	3743165.41000	0.00536	24.15	24.15	0.00	ANNUAL	ALL	
00000005								
388904.03000	3742775.99000	0.00645	21.70	21.70	0.00	ANNUAL	ALL	
00000005								
388921.65000	3742775.15000	0.00606	21.93	21.93	0.00	ANNUAL	ALL	
00000005								
388938.44000	3742774.73000	0.00571	22.14	22.14	0.00	ANNUAL	ALL	
00000005								
388951.87000	3742773.05000	0.00543	22.28	22.28	0.00	ANNUAL	ALL	
00000005								
388966.98000	3742772.21000	0.00515	22.43	22.43	0.00	ANNUAL	ALL	
00000005								
388982.51000	3742773.47000	0.00487	22.60	22.60	0.00	ANNUAL	ALL	
00000005								
388997.62000	3742772.21000	0.00461	22.75	22.75	0.00	ANNUAL	ALL	
00000005								
388888.50000	3742782.71000	0.00689	21.57	21.57	0.00	ANNUAL	ALL	
00000005								
388875.07000	3742802.85000	0.00747	21.61	21.61	0.00	ANNUAL	ALL	
00000005								
389012.72000	3742772.63000	0.00437	22.90	22.90	0.00	ANNUAL	ALL	
00000005								
389026.99000	3742773.05000	0.00414	23.01	23.01	0.00	ANNUAL	ALL	
00000005								
389044.62000	3742773.05000	0.00389	23.07	23.07	0.00	ANNUAL	ALL	
00000005								
389057.63000	3742775.15000	0.00370	23.11	23.11	0.00	ANNUAL	ALL	
00000005								
389074.42000	3742773.05000	0.00348	23.16	23.16	0.00	ANNUAL	ALL	



00000005								
389092.46000	3742769.28000	0.00327	23.17	23.17	0.00	ANNUAL	ALL	
00000005								
388771.88000	3742923.14000	0.01398	21.73	21.73	0.00	ANNUAL	ALL	
00000005								
388773.43000	3742941.18000	0.01375	21.76	21.76	0.00	ANNUAL	ALL	
00000005								
388773.69000	3742961.03000	0.01352	21.97	21.97	0.00	ANNUAL	ALL	
00000005								
389142.71000	3742763.29000	0.00275	23.69	23.69	0.00	ANNUAL	ALL	
00000005								
389157.69000	3742768.28000	0.00258	23.94	23.94	0.00	ANNUAL	ALL	
00000005								
389173.75000	3742773.63000	0.00241	24.21	24.21	0.00	ANNUAL	ALL	
00000005								
389187.66000	3742776.84000	0.00228	24.29	24.29	0.00	ANNUAL	ALL	
00000005								
388808.12000	3742857.13000	0.01086	22.02	22.02	0.00	ANNUAL	ALL	
00000005								
388807.40000	3742873.90000	0.01102	22.06	22.06	0.00	ANNUAL	ALL	
00000005								
388804.19000	3742888.89000	0.01128	22.07	22.07	0.00	ANNUAL	ALL	
00000005								
388804.19000	3742904.23000	0.01127	22.09	22.09	0.00	ANNUAL	ALL	
00000005								
388804.91000	3742919.21000	0.01115	22.12	22.12	0.00	ANNUAL	ALL	
00000005								
388807.05000	3742934.91000	0.01085	22.17	22.17	0.00	ANNUAL	ALL	
00000005								
388806.33000	3742950.25000	0.01070	22.28	22.28	0.00	ANNUAL	ALL	
00000005								
388805.98000	3742965.24000	0.01046	22.44	22.44	0.00	ANNUAL	ALL	
00000005								
388805.26000	3742980.22000	0.01020	22.59	22.59	0.00	ANNUAL	ALL	
00000005								
388804.91000	3742996.63000	0.00980	22.76	22.76	0.00	ANNUAL	ALL	
00000005								
388806.33000	3743010.55000	0.00926	22.93	22.93	0.00	ANNUAL	ALL	
00000005								
388806.69000	3743025.17000	0.00873	23.09	23.09	0.00	ANNUAL	ALL	
00000005								
388806.69000	3743041.58000	0.00812	23.25	23.25	0.00	ANNUAL	ALL	
00000005								
388805.62000	3743057.28000	0.00757	23.38	23.38	0.00	ANNUAL	ALL	
00000005								
388807.40000	3743072.27000	0.00683	23.53	23.53	0.00	ANNUAL	ALL	
00000005								
388807.05000	3743086.89000	0.00627	23.66	23.66	0.00	ANNUAL	ALL	
00000005								
388808.12000	3743101.52000	0.00565	23.79	23.79	0.00	ANNUAL	ALL	

00000005								
388808.12000	3743116.51000	0.00514	23.93	23.93	0.00	ANNUAL	ALL	
00000005								
388808.83000	3743132.92000	0.00463	24.09	24.09	0.00	ANNUAL	ALL	
00000005								
388809.90000	3743148.97000	0.00421	24.27	24.27	0.00	ANNUAL	ALL	
00000005								
388808.83000	3743163.60000	0.00396	24.42	24.42	0.00	ANNUAL	ALL	
00000005								
388817.39000	3743181.08000	0.00345	24.61	24.61	0.00	ANNUAL	ALL	
00000005								
388829.15000	3743195.17000	0.00302	24.77	24.77	0.00	ANNUAL	ALL	
00000005								
388844.62000	3743204.57000	0.00265	24.87	24.87	0.00	ANNUAL	ALL	
00000005								
388858.27000	3743215.19000	0.00235	24.99	24.99	0.00	ANNUAL	ALL	
00000005								
389096.40000	3742696.75000	0.00334	22.41	22.41	0.00	ANNUAL	ALL	
00000005								
389047.71000	3742697.17000	0.00381	22.41	22.41	0.00	ANNUAL	ALL	
00000005								
388993.56000	3742696.33000	0.00435	22.03	22.03	0.00	ANNUAL	ALL	
00000005								
388943.19000	3742697.17000	0.00486	21.39	21.39	0.00	ANNUAL	ALL	
00000005								
388905.00000	3742691.29000	0.00507	21.16	21.16	0.00	ANNUAL	ALL	
00000005								
388887.79000	3742689.61000	0.00513	21.08	21.08	0.00	ANNUAL	ALL	
00000005								
388872.67000	3742691.29000	0.00525	21.02	21.02	0.00	ANNUAL	ALL	
00000005								
388857.98000	3742690.87000	0.00528	20.92	20.92	0.00	ANNUAL	ALL	
00000005								
388849.17000	3742705.98000	0.00577	20.88	20.88	0.00	ANNUAL	ALL	
00000005								
388842.03000	3742691.71000	0.00534	20.78	20.78	0.00	ANNUAL	ALL	
00000005								
388829.86000	3742693.39000	0.00539	20.68	20.68	0.00	ANNUAL	ALL	
00000005								
388815.59000	3742696.33000	0.00548	20.58	20.58	0.00	ANNUAL	ALL	
00000005								
388798.38000	3742702.21000	0.00565	20.49	20.49	0.00	ANNUAL	ALL	
00000005								
388787.46000	3742708.92000	0.00589	20.46	20.46	0.00	ANNUAL	ALL	
00000005								
388783.27000	3742693.81000	0.00521	20.25	20.25	0.00	ANNUAL	ALL	
00000005								
388765.22000	3742694.65000	0.00508	20.02	20.02	0.00	ANNUAL	ALL	
00000005								
388751.36000	3742690.87000	0.00476	19.80	19.80	0.00	ANNUAL	ALL	

00000005								
388739.61000	3742703.46000	0.00515	19.78	19.78	0.00	ANNUAL	ALL	
00000005								
388559.54000	3742807.98000	0.00762	19.00	19.00	0.00	ANNUAL	ALL	
00000005								
388584.72000	3742796.23000	0.00753	19.13	19.13	0.00	ANNUAL	ALL	
00000005								
388610.33000	3742785.32000	0.00749	19.20	19.20	0.00	ANNUAL	ALL	
00000005								
388638.03000	3742772.30000	0.00728	19.18	19.18	0.00	ANNUAL	ALL	
00000005								
388662.80000	3742753.42000	0.00650	19.31	19.31	0.00	ANNUAL	ALL	
00000005								
388685.04000	3742748.38000	0.00677	19.54	19.54	0.00	ANNUAL	ALL	
00000005								
388707.29000	3742750.06000	0.00751	19.85	19.85	0.00	ANNUAL	ALL	
00000005								
388631.73000	3742754.67000	0.00568	18.98	18.98	0.00	ANNUAL	ALL	
00000005								
388593.96000	3742751.32000	0.00468	18.94	18.94	0.00	ANNUAL	ALL	
00000005								
388552.40000	3742781.54000	0.00537	19.02	19.02	0.00	ANNUAL	ALL	
00000005								
388551.56000	3742755.93000	0.00417	18.98	18.98	0.00	ANNUAL	ALL	
00000005								
388855.62000	3742837.03000	0.00840	21.90	21.90	0.00	ANNUAL	ALL	
00000005								
388874.12000	3742845.83000	0.00771	22.06	22.06	0.00	ANNUAL	ALL	
00000005								
388850.16000	3742861.30000	0.00870	22.12	22.12	0.00	ANNUAL	ALL	
00000005								
388849.56000	3742894.66000	0.00862	22.38	22.38	0.00	ANNUAL	ALL	
00000005								
388850.16000	3742907.40000	0.00848	22.49	22.49	0.00	ANNUAL	ALL	
00000005								
388888.99000	3742853.71000	0.00716	22.32	22.32	0.00	ANNUAL	ALL	
00000005								
388904.15000	3742859.48000	0.00663	22.53	22.53	0.00	ANNUAL	ALL	
00000005								
388919.92000	3742859.48000	0.00613	22.71	22.71	0.00	ANNUAL	ALL	
00000005								
388875.94000	3742903.45000	0.00733	22.65	22.65	0.00	ANNUAL	ALL	
00000005								
388892.32000	3742903.15000	0.00668	22.73	22.73	0.00	ANNUAL	ALL	
00000005								
388906.88000	3742902.24000	0.00617	22.80	22.80	0.00	ANNUAL	ALL	
00000005								
388922.35000	3742902.24000	0.00566	22.88	22.88	0.00	ANNUAL	ALL	
00000005								
388938.12000	3742903.45000	0.00518	22.96	22.96	0.00	ANNUAL	ALL	

00000005								
388952.07000	3742901.63000	0.00483	23.04	23.04	0.00	ANNUAL	ALL	
00000005								
388967.23000	3742902.24000	0.00444	23.16	23.16	0.00	ANNUAL	ALL	
00000005								
388983.61000	3742902.24000	0.00408	23.29	23.29	0.00	ANNUAL	ALL	
00000005								
388998.78000	3742902.24000	0.00377	23.42	23.42	0.00	ANNUAL	ALL	
00000005								
389013.03000	3742901.94000	0.00351	23.53	23.53	0.00	ANNUAL	ALL	
00000005								
389027.59000	3742901.33000	0.00327	23.63	23.63	0.00	ANNUAL	ALL	
00000005								
389043.66000	3742900.42000	0.00303	23.71	23.71	0.00	ANNUAL	ALL	
00000005								
389056.40000	3742902.85000	0.00282	23.79	23.79	0.00	ANNUAL	ALL	
00000005								
389070.96000	3742896.17000	0.00269	23.83	23.83	0.00	ANNUAL	ALL	
00000005								
388936.60000	3742858.57000	0.00566	22.89	22.89	0.00	ANNUAL	ALL	
00000005								
388952.98000	3742859.78000	0.00522	23.01	23.01	0.00	ANNUAL	ALL	
00000005								
388966.63000	3742859.17000	0.00489	23.04	23.04	0.00	ANNUAL	ALL	
00000005								
388981.79000	3742859.48000	0.00455	23.07	23.07	0.00	ANNUAL	ALL	
00000005								
388997.56000	3742859.17000	0.00422	23.10	23.10	0.00	ANNUAL	ALL	
00000005								
389013.03000	3742857.96000	0.00394	23.12	23.12	0.00	ANNUAL	ALL	
00000005								
389028.80000	3742858.26000	0.00366	23.21	23.21	0.00	ANNUAL	ALL	
00000005								
389042.45000	3742858.57000	0.00343	23.36	23.36	0.00	ANNUAL	ALL	
00000005								
389059.74000	3742857.66000	0.00318	23.55	23.55	0.00	ANNUAL	ALL	
00000005								
389087.64000	3742859.17000	0.00280	23.86	23.86	0.00	ANNUAL	ALL	
00000005								
388889.54000	3742808.33000	0.00708	21.86	21.86	0.00	ANNUAL	ALL	
00000005								
388906.31000	3742813.32000	0.00662	22.13	22.13	0.00	ANNUAL	ALL	
00000005								
388921.30000	3742815.82000	0.00622	22.36	22.36	0.00	ANNUAL	ALL	
00000005								
388938.07000	3742817.96000	0.00579	22.60	22.60	0.00	ANNUAL	ALL	
00000005								
388951.63000	3742815.11000	0.00547	22.70	22.70	0.00	ANNUAL	ALL	
00000005								
388967.33000	3742816.89000	0.00512	22.78	22.78	0.00	ANNUAL	ALL	

00000005								
388983.74000	3742816.54000	0.00478	22.84	22.84	0.00	ANNUAL	ALL	
00000005								
388997.66000	3742815.82000	0.00451	22.90	22.90	0.00	ANNUAL	ALL	
00000005								
389012.29000	3742817.25000	0.00423	22.96	22.96	0.00	ANNUAL	ALL	
00000005								
389027.63000	3742815.47000	0.00398	23.04	23.04	0.00	ANNUAL	ALL	
00000005								
389044.40000	3742816.54000	0.00370	23.19	23.19	0.00	ANNUAL	ALL	
00000005								
389059.74000	3742815.47000	0.00348	23.33	23.33	0.00	ANNUAL	ALL	
00000005								
389073.30000	3742813.68000	0.00330	23.44	23.44	0.00	ANNUAL	ALL	
00000005								
389098.28000	3742816.54000	0.00296	23.69	23.69	0.00	ANNUAL	ALL	
00000005								
389142.13000	3742804.43000	0.00255	24.12	24.12	0.00	ANNUAL	ALL	
00000005								
389140.03000	3742827.10000	0.00244	24.34	24.34	0.00	ANNUAL	ALL	
00000005								
389135.83000	3742845.15000	0.00236	24.46	24.46	0.00	ANNUAL	ALL	
00000005								
389129.53000	3742869.92000	0.00225	24.37	24.37	0.00	ANNUAL	ALL	
00000005								
389116.94000	3742893.43000	0.00221	24.21	24.21	0.00	ANNUAL	ALL	
00000005								
389178.23000	3742814.09000	0.00216	24.69	24.69	0.00	ANNUAL	ALL	
00000005								
389168.57000	3742833.40000	0.00213	24.78	24.78	0.00	ANNUAL	ALL	
00000005								
389157.24000	3742856.49000	0.00209	24.73	24.73	0.00	ANNUAL	ALL	
00000005								
389145.06000	3742874.54000	0.00208	24.57	24.57	0.00	ANNUAL	ALL	
00000005								
389130.79000	3742899.73000	0.00203	24.38	24.38	0.00	ANNUAL	ALL	
00000005								
389207.42000	3742773.54000	0.00214	24.25	24.25	0.00	ANNUAL	ALL	
00000005								
389222.54000	3742780.68000	0.00199	24.33	24.33	0.00	ANNUAL	ALL	
00000005								
388773.76000	3742930.58000	0.01377	21.75	21.75	0.00	ANNUAL	ALL	
00000005								
388773.76000	3742950.58000	0.01364	21.86	21.86	0.00	ANNUAL	ALL	
00000005								
388773.76000	3742970.58000	0.01337	22.08	22.08	0.00	ANNUAL	ALL	
00000005								

\*\* CONCUNIT ug/m<sup>3</sup>

\*\* DEPUNIT g/m<sup>2</sup>