

# **Appendices**

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## **Appendix IS-1**

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### Air Quality and Greenhouse Gas Emissions

Air Quality Emissions Summary

<b>AQ SUMMARY OF EMISSIONS</b>							
<b>Construction Emissions (Unmitigated)</b>							
Regional (Daily) Unmitigated		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	2023	10	98	87	<1	15	7
	2024	25	90	86	<1	15	5
	2025	25	67	72	<1	15	5
	2026	21	20	40	<1	10	3
	MAX	25	98	87	<1	15	7
	<b>Threshold</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
	<b>Difference</b>	<b>(50)</b>	<b>(2)</b>	<b>(463)</b>	<b>(150)</b>	<b>(135)</b>	<b>(48)</b>
	<b>Impact</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Localized (Daily) Unmitigated		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	2023		67	65		10	6
	2024		53	65		2	2
	2025		28	37		1	1
	2026		14	37		1	1
	MAX		67	65		10	6
	<b>Threshold</b>		<b>165</b>	<b>4,547</b>		<b>107</b>	<b>36</b>
	<b>Difference</b>		<b>(98)</b>	<b>(4,482)</b>		<b>(97)</b>	<b>(30)</b>
	<b>Impact</b>		<b>No</b>	<b>No</b>		<b>No</b>	<b>No</b>
<b>Operation Emissions (Without Mitigation Measures)</b>							
Regional Existing Uses (Existing Year)		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Area	13	<1	<1	<1	<1	<1
	Energy	<1	3	3	<1	<1	<1
	Mobile	5	24	63	<1	18	5
	Emergency Generator	<1	<1	<1	<1	<1	<1
	Total	19	27	65	<1	18	5
Regional Existing Uses (Buildout Year)		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Area	13	<1	<1	<1	<1	<1
	Energy	<1	3	3	<1	<1	<1
	Mobile	4	17	45	<1	17	5
	Emergency Generator	<1	<1	<1	<1	<1	<1
	Total	17	20	47	<1	18	5
Regional Proposed Uses (Buildout Year)		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Area	19	<1	<1	<1	<1	<1
	Energy	<1	3	3	<1	<1	<1
	Mobile	4	21	55	<1	22	6
	Emergency Generator	<1	2	2	<1	<1	<1
	Total	24	26	60	<1	22	6
Regional Project Uses (Buildout Year) (Net of Proposed Uses and Existing Uses under the Buildout Year)		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Area	6	<1	<1	<1	<1	<1
	Energy	<1	<1	<1	<1	<1	<1
	Mobile	<1	4	10	<1	4	1
	Emergency Generator	<1	2	2	<1	<1	<1
	Total	7	6	12	<1	4	1
	<b>Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
	<b>Difference</b>	<b>(48)</b>	<b>(49)</b>	<b>(538)</b>	<b>(150)</b>	<b>(146)</b>	<b>(54)</b>
	<b>Impact</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Localized Project Uses (Buildout Year) (Net of Proposed Uses and Existing Uses under the Buildout Year)							
	Onsite Total		2.0	1.9		0.11	0.11
	<b>Threshold</b>		<b>165</b>	<b>4547</b>		<b>26</b>	<b>9.0</b>
	<b>Difference</b>		<b>(163)</b>	<b>(4545)</b>		<b>(26)</b>	<b>(9)</b>
	<b>Impact</b>		<b>No</b>	<b>No</b>		<b>No</b>	<b>No</b>

**Construction Air Quality Analysis Assumptions**  
**8th and Alameda Redevelopment**

The following information describes the quantity of construction equipment projected during the various stages of construction.

Construction Details	Start Date	End Date	Construct. Duration (months)	Work Days	Daily Employees	Max. Daily Hauls	Total Hauls	Max. Daily Deliveries
Overall Project (start of demo to end of construction)	06/01/23	04/01/26	34					
New Buildings-Demolition	06/01/23	08/23/23	3	60	20	20	113	
New Buildings-Grading & Utilities	08/24/23	11/15/23	3	60	30	15	681	
New Buildings-Foundation/Structure	11/16/23	10/30/24	11	250	100			75
New Buildings-Interior	10/31/24	09/21/25	11	232	200			15
New Buildings-Paving/Landscape	09/22/25	10/29/25	1	28	20			30
Parking Garage-Demolition	06/01/23	07/10/23	1	28	20	20	64	0
Parking Garage-Grading & Utilities	07/11/23	08/18/23	1	29	30	20	569	0
Parking Garage-Foundation/Structure	08/19/23	02/27/24	6	137	40			75
Parking Garage-Interior	02/28/24	08/06/24	5	115	60			30
Parking Garage-Paving/Landscape	08/07/24	09/03/24	1	20	20			30
Existing Buildings-Demolition	06/01/23	11/08/23	5	115	30	20	593	
Existing Buildings-Structural Upgrades	11/09/23	09/24/24	11	229	50			30
Existing Buildings-Interior	09/25/24	02/28/26	17	373	400			30
Existing Buildings-Paving/Landscape	03/01/26	04/01/26	1	23	20		400	30

Demolition Quantities	Quantities
New Buildings-Demolition (cy)	7,000 cy
Parking Garage-Demolition (cy)	4,000 cy
Existing Buildings-Demolition (cy)	12,000 cy
<b>Import / Export Quantities during Grading</b>	
New Buildings-Grading Export (cy)	10,900 cy
Parking Garage-Grading Export (cy)	9,100 cy
Total-Grading Export (cy)	20,000 cy

Export	Distance (miles)	
Vulcan Inwandle	24	Demolition Debris
El Sobrante Landfill	59	Soil (Worst-case)

Anticipated Type of Construction Equipment (number of units for each phase. Assumed 8 hours per day, 5 days per week)

Equipment Type	New Buildings					Parking Garage					Existing Buildings				
	Demo	Grading	Foundation/Structure	Interior	Paving/Landscape	Demo	Grading	Foundation/Structure	Interior	Paving/Landscape	Demo	Structural Upgrades	Interior	Paving/Landscape	
Air Compressor	-	-	1	3	-	-	-	1	3	-	4	-	-	3	
Aerial Lift	-	-	-	3	-	-	-	-	3	-	4	-	-	3	
Bore/Drill Rig	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
Cement and Mortar Mixers	-	-	2	-	1	-	-	2	-	1	-	-	2	1	
Concrete/Industrial Saws	-	-	1	-	-	-	-	1	-	1	-	-	1	1	
Cranes (tower)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cranes (mobile)	-	-	1	1	-	-	-	1	1	-	-	-	1	1	
Crawler Tractors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Crushing/Proc. Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dewatering Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Excavators	2	1	-	-	-	2	1	-	-	-	-	-	1	-	
Forklifts	-	-	3	3	1	-	-	3	3	1	-	-	2	3	
Generator Sets	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Graders	-	1	-	-	-	-	1	-	-	-	-	-	-	-	
Off-Highway Tractors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Water Truck	1	1	-	-	1	1	1	-	-	1	-	-	-	1	
Pavers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Paving Equipment	-	-	-	-	1	-	-	-	-	1	-	-	-	1	
Pumps	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
Plate Compactors	-	-	2	-	-	-	-	2	-	-	-	-	2	-	
Rollers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rough Terrain Forklifts	-	-	-	-	-	-	-	-	-	-	-	-	2	-	
Rubber-tired Dozers	2	2	-	-	-	2	2	-	-	-	-	-	-	-	
Rubber-tired Loaders	2	2	-	-	-	2	2	-	-	-	2	-	-	-	
Scrapers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Signal Boards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Skid Steer Loaders	-	-	-	-	1	-	-	-	-	1	-	-	2	1	
Surfacing Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tractors/Loaders/Backhoes	2	-	-	-	-	2	-	-	-	-	-	-	-	-	
Trenchers	-	1	-	-	-	-	1	-	-	-	-	-	-	-	
Welders	-	-	2	2	-	-	-	2	2	-	-	-	2	-	
<b>Total Pieces</b>	<b>9</b>	<b>8</b>	<b>14</b>	<b>12</b>	<b>6</b>	<b>9</b>	<b>8</b>	<b>14</b>	<b>12</b>	<b>6</b>	<b>10</b>	<b>-</b>	<b>15</b>	<b>12</b>	<b>6</b>



8th and Alameda Redevelopment Construction - Los Angeles-South Coast County, Winter

**8th and Alameda Redevelopment Construction**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	395.53	1000sqft	9.08	395,530.00	0
General Light Industry	436.66	1000sqft	10.02	436,660.00	0
Parking Lot	210.00	Space	1.89	84,000.00	0
Unenclosed Parking with Elevator	1,574.00	Space	14.17	629,600.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2026
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The land uses include existing building renovation of approximately 582,400 sf.

Construction Phase - Site Specific Construction Schedule

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

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Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Trips and VMT - Site Specific Trips for Construction

Demolition -

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	478.00
tblConstructionPhase	NumDays	740.00	373.00



tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	HaulingTripNumber	692.00	0.00
tblTripsAndVMT	HaulingTripNumber	396.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,187.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,138.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,363.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	59.00
tblTripsAndVMT	VendorTripLength	6.90	59.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	60.00
tblTripsAndVMT	VendorTripNumber	253.00	60.00
tblTripsAndVMT	VendorTripNumber	253.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	253.00	150.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	253.00	60.00
tblTripsAndVMT	VendorTripNumber	253.00	150.00
tblTripsAndVMT	VendorTripNumber	253.00	60.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	23.00	40.00
tblTripsAndVMT	WorkerTripNumber	122.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	610.00	800.00
tblTripsAndVMT	WorkerTripNumber	610.00	400.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	23.00	40.00
tblTripsAndVMT	WorkerTripNumber	25.00	60.00
tblTripsAndVMT	WorkerTripNumber	20.00	60.00
tblTripsAndVMT	WorkerTripNumber	610.00	80.00
tblTripsAndVMT	WorkerTripNumber	20.00	60.00
tblTripsAndVMT	WorkerTripNumber	610.00	100.00
tblTripsAndVMT	WorkerTripNumber	610.00	200.00

tblTripsAndVMT	WorkerTripNumber	610.00	120.00
tblVehicleTrips	DV_TP	5.00	19.00
tblVehicleTrips	PB_TP	3.00	2.00
tblVehicleTrips	PR_TP	92.00	79.00
tblVehicleTrips	ST_TR	1.32	2.49
tblVehicleTrips	SU_TR	0.68	0.73
tblVehicleTrips	WD_TR	6.97	6.83

## 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					
2023	9.5125	97.8048	86.9496	0.2839	22.8681	3.0307	25.8861	8.8986	2.8543	11.7077						29,385.9663
2024	25.2967	89.9035	85.8139	0.2673	13.9894	2.3518	15.3907	3.7232	2.2578	5.0668						26,815.7004
2025	24.8398	36.9768	71.7925	0.1964	13.9894	1.2335	15.2229	3.7232	1.1811	4.9043						19,391.3616
2026	21.3587	19.7877	40.1729	0.1177	9.3263	0.6320	9.9583	2.4821	0.6047	3.0868						11,669.4459
<b>Maximum</b>	<b>25.2967</b>	<b>97.8048</b>	<b>86.9496</b>	<b>0.2839</b>	<b>22.8681</b>	<b>3.0307</b>	<b>25.8861</b>	<b>8.8986</b>	<b>2.8543</b>	<b>11.7077</b>						<b>29,385.9663</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					
2023	9.5125	97.8048	86.9496	0.2839	12.2910	3.0307	15.3090	4.3851	2.8543	7.1942						29,385.9662
2024	25.2967	89.9035	85.8139	0.2673	13.9894	2.3518	15.3907	3.7232	2.2578	5.0668						26,815.7004
2025	24.8398	36.9768	71.7925	0.1964	13.9894	1.2335	15.2229	3.7232	1.1811	4.9043						19,391.3616
2026	21.3587	19.7877	40.1729	0.1177	9.3263	0.6320	9.9583	2.4821	0.6047	3.0868						11,669.4458
<b>Maximum</b>	<b>25.2967</b>	<b>97.8048</b>	<b>86.9496</b>	<b>0.2839</b>	<b>13.9894</b>	<b>3.0307</b>	<b>15.3907</b>	<b>4.3851</b>	<b>2.8543</b>	<b>7.1942</b>						<b>29,385.9662</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>17.58</b>	<b>0.00</b>	<b>15.92</b>	<b>23.97</b>	<b>0.00</b>	<b>18.22</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	New Buildings-Demolition	Demolition	6/1/2023	8/23/2023	5	60	
2	Parking Garage-Demolition	Demolition	6/1/2023	7/10/2023	5	28	

3	Existing Buildings-Demolition	Demolition	6/1/2023	11/8/2023	5	115
4	Parking Garage-Grading & Utilities	Grading	7/11/2023	8/18/2023	5	29
5	Parking Garage-Foundation/Structure	Building Construction	8/19/2023	2/27/2024	5	137
6	New Buildings-Grading & Utilities	Site Preparation	8/24/2023	11/15/2023	5	60
7	Existing Buildings-Structural Joist/rajes	Building Construction	11/9/2023	9/24/2024	5	229
8	New Buildings-Foundation/Structure	Building Construction	11/16/2023	10/30/2024	5	250
9	Parking Garage-Interior	Building Construction	2/28/2024	8/6/2024	5	115
10	Architectural Coating	Architectural Coating	5/1/2024	2/27/2026	5	478
11	Parking Garage-Paving/Landscape	Paving	8/7/2024	9/3/2024	5	20
12	Existing Buildings-Interior	Building Construction	9/25/2024	2/27/2026	5	373
13	New Buildings-Interior	Building Construction	10/31/2024	9/19/2025	5	232
14	New Buildings-Paving/Landscape	Paving	9/22/2025	10/29/2025	5	28
15	Existing Buildings-Paving/Landscape	Paving	3/1/2026	4/1/2026	5	23

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

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

**Acres of Paving: 16.06**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,248,285; Non-Residential Outdoor: 416,095; Striped Parking**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
New Buildings-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
New Buildings-Demolition	Excavators	2	8.00	158	0.38
New Buildings-Demolition	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
New Buildings-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
New Buildings-Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Parking Garage-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Parking Garage-Demolition	Excavators	2	8.00	158	0.38
Parking Garage-Demolition	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Parking Garage-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
Parking Garage-Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Existing Buildings-Demolition	Aerial Lifts	4	8.00	63	0.31
Existing Buildings-Demolition	Air Compressors	4	8.00	78	0.48
Existing Buildings-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Existing Buildings-Demolition	Excavators	0	8.00	158	0.38
Existing Buildings-Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Existing Buildings-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
Parking Garage-Grading & Utilities	Excavators	1	8.00	158	0.38
Parking Garage-Grading & Utilities	Graders	1	8.00	187	0.41
Parking Garage-Grading & Utilities	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Grading & Utilities	Rubber Tired Dozers	2	8.00	247	0.40
Parking Garage-Grading & Utilities	Rubber Tired Loaders	2	8.00	203	0.36
Parking Garage-Grading & Utilities	Scrapers	0	8.00	367	0.48
Parking Garage-Grading & Utilities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Parking Garage-Grading & Utilities	Trenchers	1	8.00	78	0.50
Parking Garage-Foundation/Structure	Air Compressors	1	8.00	78	0.48
Parking Garage-Foundation/Structure	Bore/Drill Rigs	1	8.00	221	0.50
Parking Garage-Foundation/Structure	Cement and Mortar Mixers	2	8.00	9	0.56

Parking Garage-Foundation/Structure	Concrete/Industrial Saws	1	8.00	81	0.73
Parking Garage-Foundation/Structure	Cranes	1	7.00	231	0.29
Parking Garage-Foundation/Structure	Forklifts	3	8.00	89	0.20
Parking Garage-Foundation/Structure	Generator Sets	0	8.00	84	0.74
Parking Garage-Foundation/Structure	Plate Compactors	2	8.00	8	0.43
Parking Garage-Foundation/Structure	Pumps	1	8.00	84	0.74
Parking Garage-Foundation/Structure	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Parking Garage-Foundation/Structure	Welders	2	8.00	46	0.45
New Buildings-Grading & Utilities	Excavators	1	8.00	158	0.38
New Buildings-Grading & Utilities	Graders	1	8.00	187	0.41
New Buildings-Grading & Utilities	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Grading & Utilities	Rubber Tired Dozers	2	8.00	247	0.40
New Buildings-Grading & Utilities	Rubber Tired Loaders	2	8.00	203	0.36
New Buildings-Grading & Utilities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
New Buildings-Grading & Utilities	Trenchers	1	8.00	78	0.50
Existing Buildings-Structural Upgrades	Cement and Mortar Mixers	2	8.00	9	0.56
Existing Buildings-Structural Upgrades	Concrete/Industrial Saws	1	8.00	81	0.73
Existing Buildings-Structural Upgrades	Cranes	1	7.00	231	0.29
Existing Buildings-Structural Upgrades	Excavators	1	8.00	158	0.38
Existing Buildings-Structural Upgrades	Forklifts	2	8.00	89	0.20
Existing Buildings-Structural Upgrades	Generator Sets	0	8.00	84	0.74
Existing Buildings-Structural Upgrades	Plate Compactors	2	8.00	8	0.43
Existing Buildings-Structural Upgrades	Rough Terrain Forklifts	2	8.00	100	0.40
Existing Buildings-Structural Upgrades	Skid Steer Loaders	2	8.00	65	0.37
Existing Buildings-Structural Upgrades	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Existing Buildings-Structural Upgrades	Welders	2	8.00	46	0.45
New Buildings-Foundation/Structure	Air Compressors	1	8.00	78	0.48
New Buildings-Foundation/Structure	Bore/Drill Rigs	1	8.00	221	0.50
New Buildings-Foundation/Structure	Cement and Mortar Mixers	2	8.00	9	0.56
New Buildings-Foundation/Structure	Concrete/Industrial Saws	1	8.00	81	0.73
New Buildings-Foundation/Structure	Cranes	1	7.00	231	0.29
New Buildings-Foundation/Structure	Forklifts	3	8.00	89	0.20
New Buildings-Foundation/Structure	Generator Sets	0	8.00	84	0.74
New Buildings-Foundation/Structure	Plate Compactors	2	8.00	8	0.43
New Buildings-Foundation/Structure	Pumps	1	8.00	84	0.74
New Buildings-Foundation/Structure	Tractors/Loaders/Backhoes	0	7.00	97	0.37
New Buildings-Foundation/Structure	Welders	2	8.00	46	0.45
Parking Garage-Interior	Aerial Lifts	3	8.00	63	0.31
Parking Garage-Interior	Air Compressors	3	8.00	78	0.48
Parking Garage-Interior	Cranes	1	7.00	231	0.29
Parking Garage-Interior	Forklifts	3	8.00	89	0.20
Parking Garage-Interior	Generator Sets	0	8.00	84	0.74
Parking Garage-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Parking Garage-Interior	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Parking Garage-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
Parking Garage-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
Parking Garage-Paving/Landscape	Forklifts	1	8.00	89	0.20
Parking Garage-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Paving/Landscape	Pavers	0	8.00	130	0.42
Parking Garage-Paving/Landscape	Paving Equipment	1	8.00	132	0.36

Parking Garage-Paving/Landscape	Rollers	0	8.00	80	0.38
Parking Garage-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37
Existing Buildings-Interior	Aerial Lifts	3	8.00	63	0.31
Existing Buildings-Interior	Air Compressors	3	8.00	78	0.48
Existing Buildings-Interior	Cranes	1	7.00	231	0.29
Existing Buildings-Interior	Forklifts	3	8.00	89	0.20
Existing Buildings-Interior	Generator Sets	0	8.00	84	0.74
Existing Buildings-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Existing Buildings-Interior	Welders	2	8.00	46	0.45
New Buildings-Interior	Aerial Lifts	3	8.00	63	0.31
New Buildings-Interior	Air Compressors	3	8.00	78	0.48
New Buildings-Interior	Cranes	1	7.00	231	0.29
New Buildings-Interior	Forklifts	3	8.00	89	0.20
New Buildings-Interior	Generator Sets	0	8.00	84	0.74
New Buildings-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
New Buildings-Interior	Welders	2	8.00	46	0.45
New Buildings-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
New Buildings-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
New Buildings-Paving/Landscape	Forklifts	1	8.00	89	0.20
New Buildings-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Paving/Landscape	Pavers	0	8.00	130	0.42
New Buildings-Paving/Landscape	Paving Equipment	1	8.00	132	0.36
New Buildings-Paving/Landscape	Rollers	0	8.00	80	0.38
New Buildings-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37
Existing Buildings-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
Existing Buildings-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
Existing Buildings-Paving/Landscape	Forklifts	1	8.00	89	0.20
Existing Buildings-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
Existing Buildings-Paving/Landscape	Pavers	0	8.00	130	0.42
Existing Buildings-Paving/Landscape	Paving Equipment	1	8.00	132	0.36
Existing Buildings-Paving/Landscape	Rollers	0	8.00	80	0.38
Existing Buildings-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37

**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
New Buildings-Demolition	9	40.00	40.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Demolition	9	40.00	40.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT
Existing Buildings-Demolition	10	60.00	40.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Grading & Utilities	8	60.00	40.00	0.00	14.70	59.00	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Foundation/Structure	14	80.00	150.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
New Buildings-Grading & Utilities	8	60.00	30.00	0.00	14.70	59.00	20.00	LD_Mix	HHDT	HHDT
Existing Buildings-Structural Upgrades	15	100.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
New Buildings-Foundation/Structure	14	200.00	150.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Interior Architectural Coating	12	120.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Parking Garage-Paving/Landscape	6	40.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Existing Buildings-Interior	12	800.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
New Buildings-Interior	12	400.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
New Buildings-Paving/Landscape	6	40.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Existing Buildings- Paving/Landscaping	6	40.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
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### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 New Buildings-Demolition - 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					2.4966	0.0000	2.4966	0.3780	0.0000	0.3780						0.0000
Off-Road	2.4987	24.8346	19.9559	0.0438		1.1008	1.1008		1.0127	1.0127						4,274.7766
<b>Total</b>	<b>2.4987</b>	<b>24.8346</b>	<b>19.9559</b>	<b>0.0438</b>	<b>2.4966</b>	<b>1.1008</b>	<b>3.5973</b>	<b>0.3780</b>	<b>1.0127</b>	<b>1.3907</b>						<b>4,274.7766</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
Vendor	0.2466	7.3576	2.7436	0.0340	0.8392	0.0145	0.8537	0.2300	0.0138	0.2439						3,711.6350
Worker	0.1688	0.1066	1.2471	4.0000e-003	0.4471	3.4000e-003	0.4505	0.1186	3.1300e-003	0.1217						398.9447
<b>Total</b>	<b>0.4154</b>	<b>7.4641</b>	<b>3.9906</b>	<b>0.0380</b>	<b>1.2863</b>	<b>0.0179</b>	<b>1.3042</b>	<b>0.3486</b>	<b>0.0170</b>	<b>0.3656</b>						<b>4,110.5797</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9737	0.0000	0.9737	0.1474	0.0000	0.1474						0.0000
Off-Road	2.4987	24.8346	19.9559	0.0438		1.1008	1.1008		1.0127	1.0127						4,274.7766
<b>Total</b>	<b>2.4987</b>	<b>24.8346</b>	<b>19.9559</b>	<b>0.0438</b>	<b>0.9737</b>	<b>1.1008</b>	<b>2.0744</b>	<b>0.1474</b>	<b>1.0127</b>	<b>1.1602</b>						<b>4,274.7766</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



















































Vendor	0.1240	4.0956	1.3119	0.0142	0.3842	4.8100e-003	0.3890	0.1106	4.6000e-003	0.1152						1,520.4527
Worker	0.1461	0.0819	1.0064	3.5900e-003	0.4471	3.1700e-003	0.4503	0.1186	2.9200e-003	0.1215						358.6655
<b>Total</b>	<b>0.2701</b>	<b>4.1775</b>	<b>2.3182</b>	<b>0.0177</b>	<b>0.8313</b>	<b>7.9800e-003</b>	<b>0.8393</b>	<b>0.2292</b>	<b>7.5200e-003</b>	<b>0.2367</b>						<b>1,879.1182</b>

8th and Alameda Redevelopment Construction Localized - Los Angeles-South Coast County, Winter

**8th and Alameda Redevelopment Construction Localized**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	395.53	1000sqft	9.08	395,530.00	0
General Light Industry	436.66	1000sqft	10.02	436,660.00	0
Parking Lot	210.00	Space	1.89	84,000.00	0
Unenclosed Parking with Elevator	1,574.00	Space	14.17	629,600.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2026
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - The land uses include existing building renovation of approximately 582,400 sf.
- Construction Phase - Site Specific Construction Schedule
- Off-road Equipment - Site Specific Construction Equipment Mix
- Off-road Equipment - Site Specific Construction Equipment Mix
- Off-road Equipment - Site Specific Construction Equipment Mix
- Off-road Equipment - Site Specific Construction Equipment Mix
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- Off-road Equipment - Site Specific Construction Equipment Mix
- Off-road Equipment - Site Specific Construction Equipment Mix
- Off-road Equipment - Site Specific Construction Equipment Mix
- Trips and VMT - Site Specific Trips for Construction
- Demolition -
- Grading -
- Architectural Coating -
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	416095	329173
tblAreaCoating	Area_Nonresidential_Interior	1248285	987518
tblAreaCoating	Area_Parking	42816	42792
tblConstructionPhase	NumDays	55.00	478.00
tblConstructionPhase	NumDays	740.00	373.00
tblConstructionPhase	NumDays	740.00	232.00
tblConstructionPhase	NumDays	740.00	137.00





tblTripsAndVMT	HaulingTripNumber	396.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,187.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,138.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,363.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	59.00
tblTripsAndVMT	VendorTripLength	6.90	59.00
tblTripsAndVMT	VendorTripNumber	253.00	0.00
tblTripsAndVMT	VendorTripNumber	253.00	0.00
tblTripsAndVMT	VendorTripNumber	253.00	0.00
tblTripsAndVMT	VendorTripNumber	253.00	0.00
tblTripsAndVMT	VendorTripNumber	253.00	0.00
tblTripsAndVMT	VendorTripNumber	253.00	0.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	122.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	610.00	0.00
tblTripsAndVMT	WorkerTripNumber	610.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	610.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	610.00	0.00
tblTripsAndVMT	WorkerTripNumber	610.00	0.00
tblTripsAndVMT	WorkerTripNumber	610.00	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

Year	ROG	NOx	CO	SO2	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					
2023	7.4100	67.3271	65.0754	0.1270	17.3394	2.9611	20.2809	7.3992	2.7884	10.1356						12,039.2649
2024	22.7087	53.4765	64.7738	0.1249	0.0000	2.2786	2.2786	0.0000	2.1890	2.1890						11,642.1407
2025	20.0731	28.1097	37.4671	0.0634	0.0000	1.1276	1.1276	0.0000	1.0835	1.0834						5,951.3651
2026	18.3136	14.0548	18.7335	0.0317	0.0000	0.5638	0.5638	0.0000	0.5417	0.5417						2,975.6825
Maximum	22.7087	67.3271	65.0754	0.1270	17.3394	2.9611	20.2809	7.3992	2.7884	10.1356						12,039.2649

#### 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					
2023	7.4100	67.3271	65.0754	0.1270	6.7624	2.9611	9.7039	2.8857	2.7884	5.6221						12,039.2649
2024	22.7087	53.4765	64.7738	0.1249	0.0000	2.2786	2.2786	0.0000	2.1890	2.1890						11,642.1407
2025	20.0731	28.1097	37.4671	0.0634	0.0000	1.1276	1.1276	0.0000	1.0835	1.0834						5,951.3651
2026	18.3136	14.0548	18.7335	0.0317	0.0000	0.5638	0.5638	0.0000	0.5417	0.5417						2,975.6825
Maximum	22.7087	67.3271	65.0754	0.1270	6.7624	2.9611	9.7039	2.8857	2.7884	5.6221						12,039.2649

  

	ROG	NOx	CO	SO2	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	61.00	0.00	43.61	61.00	0.00	32.36	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	New Buildings-Demolition	Demolition	6/1/2023	8/23/2023	5	60	
2	Parking Garage-Demolition	Demolition	6/1/2023	7/10/2023	5	28	
3	Existing Buildings-Demolition	Demolition	6/1/2023	11/8/2023	5	115	
4	Parking Garage-Grading & Utilities	Grading	7/11/2023	8/18/2023	5	29	
5	Parking Garage-Foundation/Structure	Building Construction	8/19/2023	2/27/2024	5	137	
6	New Buildings-Grading & Utilities	Site Preparation	8/24/2023	11/15/2023	5	60	
7	Existing Buildings-Structural Upgrades	Building Construction	11/9/2023	9/24/2024	5	229	
8	New Buildings-Foundation/Structure	Building Construction	11/16/2023	10/30/2024	5	250	
9	Parking Garage-Interior	Building Construction	2/28/2024	8/6/2024	5	115	
10	Architectural Coating	Architectural Coating	5/1/2024	2/27/2026	5	478	
11	Parking Garage-Paving/Landscape	Paving	8/7/2024	9/3/2024	5	20	
12	Existing Buildings-Interior	Building Construction	9/25/2024	2/27/2026	5	373	
13	New Buildings-Interior	Building Construction	10/31/2024	9/19/2025	5	232	
14	New Buildings-Paving/Landscape	Paving	9/22/2025	10/29/2025	5	28	
15	Existing Buildings-Paving/Landscape	Paving	3/1/2026	4/1/2026	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,248,285; Non-Residential Outdoor: 416,095; Striped Parking

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
New Buildings-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
New Buildings-Demolition	Excavators	2	8.00	158	0.38
New Buildings-Demolition	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
New Buildings-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
New Buildings-Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Parking Garage-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Parking Garage-Demolition	Excavators	2	8.00	158	0.38
Parking Garage-Demolition	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Parking Garage-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
Parking Garage-Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Existing Buildings-Demolition	Aerial Lifts	4	8.00	63	0.31
Existing Buildings-Demolition	Air Compressors	4	8.00	78	0.48
Existing Buildings-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Existing Buildings-Demolition	Excavators	0	8.00	158	0.38
Existing Buildings-Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Existing Buildings-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
Parking Garage-Grading & Utilities	Excavators	1	8.00	158	0.38
Parking Garage-Grading & Utilities	Graders	1	8.00	187	0.41
Parking Garage-Grading & Utilities	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Grading & Utilities	Rubber Tired Dozers	2	8.00	247	0.40
Parking Garage-Grading & Utilities	Rubber Tired Loaders	2	8.00	203	0.36
Parking Garage-Grading & Utilities	Scrapers	0	8.00	367	0.48
Parking Garage-Grading & Utilities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Parking Garage-Grading & Utilities	Trenchers	1	8.00	78	0.50
Parking Garage-Foundation/Structure	Air Compressors	1	8.00	78	0.48
Parking Garage-Foundation/Structure	Bore/Drill Rigs	1	8.00	221	0.50
Parking Garage-Foundation/Structure	Cement and Mortar Mixers	2	8.00	9	0.56
Parking Garage-Foundation/Structure	Concrete/Industrial Saws	1	8.00	81	0.73
Parking Garage-Foundation/Structure	Cranes	1	7.00	231	0.29
Parking Garage-Foundation/Structure	Forklifts	3	8.00	89	0.20
Parking Garage-Foundation/Structure	Generator Sets	0	8.00	84	0.74
Parking Garage-Foundation/Structure	Plate Compactors	2	8.00	8	0.43
Parking Garage-Foundation/Structure	Pumps	1	8.00	84	0.74
Parking Garage-Foundation/Structure	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Parking Garage-Foundation/Structure	Welders	2	8.00	46	0.45
New Buildings-Grading & Utilities	Excavators	1	8.00	158	0.38
New Buildings-Grading & Utilities	Graders	1	8.00	187	0.41
New Buildings-Grading & Utilities	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Grading & Utilities	Rubber Tired Dozers	2	8.00	247	0.40
New Buildings-Grading & Utilities	Rubber Tired Loaders	2	8.00	203	0.36
New Buildings-Grading & Utilities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
New Buildings-Grading & Utilities	Trenchers	1	8.00	78	0.50
Existing Buildings-Structural Upgrades	Cement and Mortar Mixers	2	8.00	9	0.56
Existing Buildings-Structural Upgrades	Concrete/Industrial Saws	1	8.00	81	0.73
Existing Buildings-Structural Upgrades	Cranes	1	7.00	231	0.29
Existing Buildings-Structural Upgrades	Excavators	1	8.00	158	0.38
Existing Buildings-Structural Upgrades	Forklifts	2	8.00	89	0.20
Existing Buildings-Structural Upgrades	Generator Sets	0	8.00	84	0.74
Existing Buildings-Structural Upgrades	Plate Compactors	2	8.00	8	0.43
Existing Buildings-Structural Upgrades	Rough Terrain Forklifts	2	8.00	100	0.40
Existing Buildings-Structural Upgrades	Skid Steer Loaders	2	8.00	65	0.37
Existing Buildings-Structural Upgrades	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Existing Buildings-Structural Upgrades	Welders	2	8.00	46	0.45
New Buildings-Foundation/Structure	Air Compressors	1	8.00	78	0.48
New Buildings-Foundation/Structure	Bore/Drill Rigs	1	8.00	221	0.50
New Buildings-Foundation/Structure	Cement and Mortar Mixers	2	8.00	9	0.56
New Buildings-Foundation/Structure	Concrete/Industrial Saws	1	8.00	81	0.73
New Buildings-Foundation/Structure	Cranes	1	7.00	231	0.29
New Buildings-Foundation/Structure	Forklifts	3	8.00	89	0.20
New Buildings-Foundation/Structure	Generator Sets	0	8.00	84	0.74
New Buildings-Foundation/Structure	Plate Compactors	2	8.00	8	0.43
New Buildings-Foundation/Structure	Pumps	1	8.00	84	0.74
New Buildings-Foundation/Structure	Tractors/Loaders/Backhoes	0	7.00	97	0.37
New Buildings-Foundation/Structure	Welders	2	8.00	46	0.45
Parking Garage-Interior	Aerial Lifts	3	8.00	63	0.31
Parking Garage-Interior	Air Compressors	3	8.00	78	0.48

Parking Garage-Interior	Cranes	1	7.00	231	0.29
Parking Garage-Interior	Forklifts	3	8.00	89	0.20
Parking Garage-Interior	Generator Sets	0	8.00	84	0.74
Parking Garage-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Parking Garage-Interior	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Parking Garage-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
Parking Garage-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
Parking Garage-Paving/Landscape	Forklifts	1	8.00	89	0.20
Parking Garage-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Paving/Landscape	Pavers	0	8.00	130	0.42
Parking Garage-Paving/Landscape	Paving Equipment	1	8.00	132	0.36
Parking Garage-Paving/Landscape	Rollers	0	8.00	80	0.38
Parking Garage-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37
Existing Buildings-Interior	Aerial Lifts	3	8.00	63	0.31
Existing Buildings-Interior	Air Compressors	3	8.00	78	0.48
Existing Buildings-Interior	Cranes	1	7.00	231	0.29
Existing Buildings-Interior	Forklifts	3	8.00	89	0.20
Existing Buildings-Interior	Generator Sets	0	8.00	84	0.74
Existing Buildings-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Existing Buildings-Interior	Welders	2	8.00	46	0.45
New Buildings-Interior	Aerial Lifts	3	8.00	63	0.31
New Buildings-Interior	Air Compressors	3	8.00	78	0.48
New Buildings-Interior	Cranes	1	7.00	231	0.29
New Buildings-Interior	Forklifts	3	8.00	89	0.20
New Buildings-Interior	Generator Sets	0	8.00	84	0.74
New Buildings-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
New Buildings-Interior	Welders	2	8.00	46	0.45
New Buildings-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
New Buildings-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
New Buildings-Paving/Landscape	Forklifts	1	8.00	89	0.20
New Buildings-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Paving/Landscape	Pavers	0	8.00	130	0.42
New Buildings-Paving/Landscape	Paving Equipment	1	8.00	132	0.36
New Buildings-Paving/Landscape	Rollers	0	8.00	80	0.38
New Buildings-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37
Existing Buildings-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
Existing Buildings-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
Existing Buildings-Paving/Landscape	Forklifts	1	8.00	89	0.20
Existing Buildings-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
Existing Buildings-Paving/Landscape	Pavers	0	8.00	130	0.42
Existing Buildings-Paving/Landscape	Paving Equipment	1	8.00	132	0.36
Existing Buildings-Paving/Landscape	Rollers	0	8.00	80	0.38
Existing Buildings-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37

### 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	
New Buildings-Demolition		9	0.00	0.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Demolition		9	0.00	0.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT
Existing Buildings-Demolition		10	0.00	0.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Grading & Utilities		8	0.00	0.00	0.00	14.70	59.00	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Foundation/Structure		14	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
New Buildings-Grading & Utilities		8	0.00	0.00	0.00	14.70	59.00	20.00	LD_Mix	HHDT	HHDT
Existing Buildings-Structural Upgrades		15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
New Buildings-Foundation/Structure		14	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT

Parking Garage-Interior	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Parking Garage-Interior	6	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving/Landscaping-Existing Buildings-Interior	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
New Buildings-Interior	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
New Buildings-Paving/Landscaping-Existing Buildings-Interior	6	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving/Landscaping-Existing Buildings-Interior	6	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 New Buildings-Demolition - 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					2.4966	0.0000	2.4966	0.3780	0.0000	0.3780						0.0000
Off-Road	2.4987	24.8346	19.9559	0.0438		1.1008	1.1008		1.0127	1.0127						4,274.7766
<b>Total</b>	<b>2.4987</b>	<b>24.8346</b>	<b>19.9559</b>	<b>0.0438</b>	<b>2.4966</b>	<b>1.1008</b>	<b>3.5973</b>	<b>0.3780</b>	<b>1.0127</b>	<b>1.3907</b>						<b>4,274.7766</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9737	0.0000	0.9737	0.1474	0.0000	0.1474						0.0000
Off-Road	2.4987	24.8346	19.9559	0.0438		1.1008	1.1008		1.0127	1.0127						4,274.7766
<b>Total</b>	<b>2.4987</b>	<b>24.8346</b>	<b>19.9559</b>	<b>0.0438</b>	<b>0.9737</b>	<b>1.1008</b>	<b>2.0744</b>	<b>0.1474</b>	<b>1.0127</b>	<b>1.1602</b>						<b>4,274.7766</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					



**3.4 Existing Buildings-Demolition - 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					2.2329	0.0000	2.2329	0.3381	0.0000	0.3381							0.0000
Off-Road	1.5664	13.0643	16.2920	0.0320		0.5479	0.5479		0.5343	0.5343							3,074.7263
<b>Total</b>	<b>1.5664</b>	<b>13.0643</b>	<b>16.2920</b>	<b>0.0320</b>	<b>2.2329</b>	<b>0.5479</b>	<b>2.7808</b>	<b>0.3381</b>	<b>0.5343</b>	<b>0.8724</b>							<b>3,074.7263</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.8709	0.0000	0.8709	0.1319	0.0000	0.1319							0.0000
Off-Road	1.5664	13.0643	16.2920	0.0320		0.5479	0.5479		0.5343	0.5343							3,074.7263
<b>Total</b>	<b>1.5664</b>	<b>13.0643</b>	<b>16.2920</b>	<b>0.0320</b>	<b>0.8709</b>	<b>0.5479</b>	<b>1.4187</b>	<b>0.1319</b>	<b>0.5343</b>	<b>0.6661</b>							<b>3,074.7263</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**3.5 Parking Garage-Grading & Utilities - 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
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Category	lb/day										lb/day						
Fugitive Dust					12.6099	0.0000	12.6099	6.6831	0.0000	6.6831							0.0000
Off-Road	2.8727	29.4282	17.2750	0.0455		1.2929	1.2929		1.1894	1.1894							4,443.7085
<b>Total</b>	<b>2.8727</b>	<b>29.4282</b>	<b>17.2750</b>	<b>0.0455</b>	<b>12.6099</b>	<b>1.2929</b>	<b>13.9028</b>	<b>6.6831</b>	<b>1.1894</b>	<b>7.8725</b>							<b>4,443.7085</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**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					4.9179	0.0000	4.9179	2.6064	0.0000	2.6064							0.0000
Off-Road	2.8727	29.4282	17.2750	0.0455		1.2929	1.2929		1.1894	1.1894							4,443.7085
<b>Total</b>	<b>2.8727</b>	<b>29.4282</b>	<b>17.2750</b>	<b>0.0455</b>	<b>4.9179</b>	<b>1.2929</b>	<b>6.2107</b>	<b>2.6064</b>	<b>1.1894</b>	<b>3.7958</b>							<b>4,443.7085</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**3.6 Parking Garage-Foundation/Structure - 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	2.4540	19.4117	21.2634	0.0434		0.8993	0.8993		0.8687	0.8687							4,042.8964
<b>Total</b>	<b>2.4540</b>	<b>19.4117</b>	<b>21.2634</b>	<b>0.0434</b>		<b>0.8993</b>	<b>0.8993</b>		<b>0.8687</b>	<b>0.8687</b>							<b>4,042.8964</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4540	19.4117	21.2634	0.0434		0.8993	0.8993		0.8687	0.8687						4,042.8964
<b>Total</b>	<b>2.4540</b>	<b>19.4117</b>	<b>21.2634</b>	<b>0.0434</b>		<b>0.8993</b>	<b>0.8993</b>		<b>0.8687</b>	<b>0.8687</b>						<b>4,042.8964</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**3.6 Parking Garage-Foundation/Structure - 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	2.3126	18.2361	21.1576	0.0434		0.7955	0.7955		0.7680	0.7680						4,044.7013
<b>Total</b>	<b>2.3126</b>	<b>18.2361</b>	<b>21.1576</b>	<b>0.0434</b>		<b>0.7955</b>	<b>0.7955</b>		<b>0.7680</b>	<b>0.7680</b>						<b>4,044.7013</b>

**Unmitigated Construction Off-Site**



Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					4.9120	0.0000	4.9120	2.6055	0.0000	2.6055							0.0000
Off-Road	2.8727	29.4282	17.2750	0.0455		1.2929	1.2929		1.1894	1.1894							4,443.7085
<b>Total</b>	<b>2.8727</b>	<b>29.4282</b>	<b>17.2750</b>	<b>0.0455</b>	<b>4.9120</b>	<b>1.2929</b>	<b>6.2049</b>	<b>2.6055</b>	<b>1.1894</b>	<b>3.7950</b>							<b>4,443.7085</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**3.8 Existing Buildings-Structural Upgrades - 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	2.0833	17.9990	22.5487	0.0381		0.7689	0.7689		0.7303	0.7303							3,552.6600
<b>Total</b>	<b>2.0833</b>	<b>17.9990</b>	<b>22.5487</b>	<b>0.0381</b>		<b>0.7689</b>	<b>0.7689</b>		<b>0.7303</b>	<b>0.7303</b>							<b>3,552.6600</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.0833	17.9990	22.5487	0.0381		0.7689	0.7689		0.7303	0.7303							3,552.6600
<b>Total</b>	<b>2.0833</b>	<b>17.9990</b>	<b>22.5487</b>	<b>0.0381</b>		<b>0.7689</b>	<b>0.7689</b>		<b>0.7303</b>	<b>0.7303</b>							<b>3,552.6600</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**3.8 Existing Buildings-Structural Upgrades - 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	1.9706	17.0043	22.4587	0.0381		0.6877	0.6877		0.6530	0.6530							3,552.7382
<b>Total</b>	<b>1.9706</b>	<b>17.0043</b>	<b>22.4587</b>	<b>0.0381</b>		<b>0.6877</b>	<b>0.6877</b>		<b>0.6530</b>	<b>0.6530</b>							<b>3,552.7382</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**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	1.9706	17.0043	22.4587	0.0381		0.6877	0.6877		0.6530	0.6530							3,552.738 2
<b>Total</b>	<b>1.9706</b>	<b>17.0043</b>	<b>22.4587</b>	<b>0.0381</b>		<b>0.6877</b>	<b>0.6877</b>		<b>0.6530</b>	<b>0.6530</b>							<b>3,552.738 2</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**3.9 New Buildings-Foundation/Structure - 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	2.4540	19.4117	21.2634	0.0434		0.8993	0.8993		0.8687	0.8687							4,042.896 4
<b>Total</b>	<b>2.4540</b>	<b>19.4117</b>	<b>21.2634</b>	<b>0.0434</b>		<b>0.8993</b>	<b>0.8993</b>		<b>0.8687</b>	<b>0.8687</b>							<b>4,042.896 4</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.4540	19.4117	21.2634	0.0434		0.8993	0.8993		0.8687	0.8687							4,042.896 4
<b>Total</b>	<b>2.4540</b>	<b>19.4117</b>	<b>21.2634</b>	<b>0.0434</b>		<b>0.8993</b>	<b>0.8993</b>		<b>0.8687</b>	<b>0.8687</b>							<b>4,042.896 4</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**3.9 New Buildings-Foundation/Structure - 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	2.3126	18.2361	21.1576	0.0434		0.7955	0.7955		0.7680	0.7680						4,044.7013
<b>Total</b>	<b>2.3126</b>	<b>18.2361</b>	<b>21.1576</b>	<b>0.0434</b>		<b>0.7955</b>	<b>0.7955</b>		<b>0.7680</b>	<b>0.7680</b>						<b>4,044.7013</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3126	18.2361	21.1576	0.0434		0.7955	0.7955		0.7680	0.7680						4,044.7013
<b>Total</b>	<b>2.3126</b>	<b>18.2361</b>	<b>21.1576</b>	<b>0.0434</b>		<b>0.7955</b>	<b>0.7955</b>		<b>0.7680</b>	<b>0.7680</b>						<b>4,044.7013</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					





**3.11 Architectural Coating - 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					
Archit. Coating	16.5541					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>16.5541</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**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	16.5541					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>16.5541</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**3.11 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**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	16.5541					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>16.5541</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**3.12 Parking Garage-Paving/Landscape - 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	0.7344	6.3899	9.5537	0.0154		0.2954	0.2954		0.2818	0.2818						1,468.4730
Paving	0.2476					0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>0.9820</b>	<b>6.3899</b>	<b>9.5537</b>	<b>0.0154</b>		<b>0.2954</b>	<b>0.2954</b>		<b>0.2818</b>	<b>0.2818</b>						<b>1,468.4730</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**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	0.7344	6.3899	9.5537	0.0154		0.2954	0.2954		0.2818	0.2818						1,468.4730
Paving	0.2476					0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>0.9820</b>	<b>6.3899</b>	<b>9.5537</b>	<b>0.0154</b>		<b>0.2954</b>	<b>0.2954</b>		<b>0.2818</b>	<b>0.2818</b>						<b>1,468.4730</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**3.13 Existing Buildings-Interior - 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	1.8715	14.9324	18.8170	0.0317		0.6466	0.6466		0.6220	0.6220						2,975.7884
<b>Total</b>	<b>1.8715</b>	<b>14.9324</b>	<b>18.8170</b>	<b>0.0317</b>		<b>0.6466</b>	<b>0.6466</b>		<b>0.6220</b>	<b>0.6220</b>						<b>2,975.7884</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000

Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction 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	1.8715	14.9324	18.8170	0.0317		0.6466	0.6466		0.6220	0.6220							2,975.7884
<b>Total</b>	<b>1.8715</b>	<b>14.9324</b>	<b>18.8170</b>	<b>0.0317</b>		<b>0.6466</b>	<b>0.6466</b>		<b>0.6220</b>	<b>0.6220</b>							<b>2,975.7884</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**3.13 Existing Buildings-Interior - 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	1.7595	14.0548	18.7335	0.0317		0.5638	0.5638		0.5417	0.5417						2,975.6825
<b>Total</b>	<b>1.7595</b>	<b>14.0548</b>	<b>18.7335</b>	<b>0.0317</b>		<b>0.5638</b>	<b>0.5638</b>		<b>0.5417</b>	<b>0.5417</b>						<b>2,975.6825</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**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	1.7595	14.0548	18.7335	0.0317		0.5638	0.5638		0.5417	0.5417							2,975.6825
<b>Total</b>	<b>1.7595</b>	<b>14.0548</b>	<b>18.7335</b>	<b>0.0317</b>		<b>0.5638</b>	<b>0.5638</b>		<b>0.5417</b>	<b>0.5417</b>							<b>2,975.6825</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**3.13 Existing Buildings-Interior - 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	1.7595	14.0548	18.7335	0.0317		0.5638	0.5638		0.5417	0.5417							2,975.6825
<b>Total</b>	<b>1.7595</b>	<b>14.0548</b>	<b>18.7335</b>	<b>0.0317</b>		<b>0.5638</b>	<b>0.5638</b>		<b>0.5417</b>	<b>0.5417</b>							<b>2,975.6825</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**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	1.7595	14.0548	18.7335	0.0317		0.5638	0.5638		0.5417	0.5417							2,975.6825
<b>Total</b>	<b>1.7595</b>	<b>14.0548</b>	<b>18.7335</b>	<b>0.0317</b>		<b>0.5638</b>	<b>0.5638</b>		<b>0.5417</b>	<b>0.5417</b>							<b>2,975.6825</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**3.14 New Buildings-Interior - 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	1.8715	14.9324	18.8170	0.0317		0.6466	0.6466		0.6220	0.6220							2,975.7884
<b>Total</b>	<b>1.8715</b>	<b>14.9324</b>	<b>18.8170</b>	<b>0.0317</b>		<b>0.6466</b>	<b>0.6466</b>		<b>0.6220</b>	<b>0.6220</b>							<b>2,975.7884</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**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	1.8715	14.9324	18.8170	0.0317		0.6466	0.6466		0.6220	0.6220							2,975.7884
<b>Total</b>	<b>1.8715</b>	<b>14.9324</b>	<b>18.8170</b>	<b>0.0317</b>		<b>0.6466</b>	<b>0.6466</b>		<b>0.6220</b>	<b>0.6220</b>							<b>2,975.7884</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**3.14 New Buildings-Interior - 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	1.7595	14.0548	18.7335	0.0317		0.5638	0.5638		0.5417	0.5417							2,975.6825
<b>Total</b>	<b>1.7595</b>	<b>14.0548</b>	<b>18.7335</b>	<b>0.0317</b>		<b>0.5638</b>	<b>0.5638</b>		<b>0.5417</b>	<b>0.5417</b>							<b>2,975.6825</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**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	1.7595	14.0548	18.7335	0.0317		0.5638	0.5638		0.5417	0.5417							2,975.6825
<b>Total</b>	<b>1.7595</b>	<b>14.0548</b>	<b>18.7335</b>	<b>0.0317</b>		<b>0.5638</b>	<b>0.5638</b>		<b>0.5417</b>	<b>0.5417</b>							<b>2,975.6825</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					







8th and Alameda Redevelopment Existing Operation - Los Angeles-South Coast County, Winter

**8th and Alameda Redevelopment Existing Operation**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	582.40	1000sqft	13.37	582,400.00	0
Parking Lot	724.00	Space	6.52	289,600.00	0
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2021
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	739	<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 - Consistency with SB100 for LADWP.

Land Use -

Vehicle Trips - LADOT VMT Calculator

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CO2IntensityFactor	1227.89	739
tblVehicleTrips	CC_TL	8.40	7.63
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	0.00	555.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.00	286.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	0.00	2,933.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	13.1478	1.2300e-003	0.1340	1.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004							0.3051
Energy	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354							3,738.9351
Mobile	5.0549	24.2885	62.7146	0.2106	17.3216	0.1848	17.5064	4.6357	0.1725	4.8082							21,460.0614
<b>Total</b>	<b>18.5434</b>	<b>27.3871</b>	<b>65.4504</b>	<b>0.2292</b>	<b>17.3216</b>	<b>0.4207</b>	<b>17.7422</b>	<b>4.6357</b>	<b>0.4084</b>	<b>5.0441</b>							<b>25,199.3016</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	13.1478	1.2300e-003	0.1340	1.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004							0.3051
Energy	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354							3,738.9351
Mobile	5.0549	24.2885	62.7146	0.2106	17.3216	0.1848	17.5064	4.6357	0.1725	4.8082							21,460.0614
<b>Total</b>	<b>18.5434</b>	<b>27.3871</b>	<b>65.4504</b>	<b>0.2292</b>	<b>17.3216</b>	<b>0.4207</b>	<b>17.7422</b>	<b>4.6357</b>	<b>0.4084</b>	<b>5.0441</b>							<b>25,199.3016</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	5.0549	24.2885	62.7146	0.2106	17.3216	0.1848	17.5064	4.6357	0.1725	4.8082							21,460.0614
Unmitigated	5.0549	24.2885	62.7146	0.2106	17.3216	0.1848	17.5064	4.6357	0.1725	4.8082							21,460.0614

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
General Light Industry	0.00	0.00	0.00		
User Defined Industrial	2,933.00	555.00	286.00	6,152,161	6,152,161
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>2,933.00</b>	<b>555.00</b>	<b>286.00</b>	<b>6,152,161</b>	<b>6,152,161</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
User Defined Industrial	0.00	7.63	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
User Defined Industrial	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354							3,738.9351
NaturalGas Unmitigated	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354							3,738.9351

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	31593.2	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354						3,738.9351
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.3407</b>	<b>3.0974</b>	<b>2.6018</b>	<b>0.0186</b>		<b>0.2354</b>	<b>0.2354</b>		<b>0.2354</b>	<b>0.2354</b>						<b>3,738.9351</b>

##### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	31593.2	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354						3,738.9351
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.3407</b>	<b>3.0974</b>	<b>2.6018</b>	<b>0.0186</b>		<b>0.2354</b>	<b>0.2354</b>		<b>0.2354</b>	<b>0.2354</b>						<b>3,738.9351</b>

#### 6.0 Area Detail

## 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.1478	1.2300e-003	0.1340	1.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004						0.3051
Unmitigated	13.1478	1.2300e-003	0.1340	1.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004						0.3051

## 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	1.5012					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	11.6341					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.0125	1.2300e-003	0.1340	1.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004						0.3051
<b>Total</b>	<b>13.1478</b>	<b>1.2300e-003</b>	<b>0.1340</b>	<b>1.0000e-005</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>						<b>0.3051</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	1.5012					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	11.6341					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.0125	1.2300e-003	0.1340	1.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004						0.3051
<b>Total</b>	<b>13.1478</b>	<b>1.2300e-003</b>	<b>0.1340</b>	<b>1.0000e-005</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>						<b>0.3051</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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8th and Alameda Redevelopment No Project Operation - Los Angeles-South Coast County, Winter

**8th and Alameda Redevelopment Existing Uses (Buildout Year) Operation**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	582.40	1000sqft	13.37	582,400.00	0
Parking Lot	724.00	Space	6.52	289,600.00	0
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2026
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	585	<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 - Consistency with SB100 for LADWP.
- Vehicle Trips - LADOT VMT Calculator
- Energy Use -
- Stationary Sources - Emergency Generators and Fire Pumps -
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	0.88	0.88
tblProjectCharacteristics	CO2IntensityFactor	1227.89	585
tblVehicleTrips	CC_TL	8.40	7.63
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	0.00	555.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.00	286.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	0.00	2,933.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	13.1476	1.2100e-003	0.1331	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004							0.3047
Energy	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354							3,738.9351
Mobile	3.6732	16.9593	44.5659	0.1830	17.3167	0.1411	17.4578	4.6329	0.1310	4.7639							18,721.4569
<b>Total</b>	<b>17.1615</b>	<b>20.0579</b>	<b>47.3008</b>	<b>0.2016</b>	<b>17.3167</b>	<b>0.3770</b>	<b>17.6937</b>	<b>4.6329</b>	<b>0.3669</b>	<b>4.9998</b>							<b>22,460.6967</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	13.1476	1.2100e-003	0.1331	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004							0.3047
Energy	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354							3,738.9351
Mobile	3.6732	16.9593	44.5659	0.1830	17.3167	0.1411	17.4578	4.6329	0.1310	4.7639							18,721.4569
<b>Total</b>	<b>17.1615</b>	<b>20.0579</b>	<b>47.3008</b>	<b>0.2016</b>	<b>17.3167</b>	<b>0.3770</b>	<b>17.6937</b>	<b>4.6329</b>	<b>0.3669</b>	<b>4.9998</b>							<b>22,460.6967</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	3.6732	16.9593	44.5659	0.1830	17.3167	0.1411	17.4578	4.6329	0.1310	4.7639							18,721.4569
Unmitigated	3.6732	16.9593	44.5659	0.1830	17.3167	0.1411	17.4578	4.6329	0.1310	4.7639							18,721.4569

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
General Light Industry	0.00	0.00	0.00		
User Defined Industrial	2,933.00	555.00	286.00	6,152,161	6,152,161
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>2,933.00</b>	<b>555.00</b>	<b>286.00</b>	<b>6,152,161</b>	<b>6,152,161</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
User Defined Industrial	0.00	7.63	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
User Defined Industrial	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Parking Lot	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

## 5.0 Energy Detail

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	lb/day										lb/day						
NaturalGas Mitigated	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354							3,738.9351
NaturalGas Unmitigated	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354							3,738.9351

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
General Light Industry	31593.2	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354						3,738.9351
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.3407</b>	<b>3.0974</b>	<b>2.6018</b>	<b>0.0186</b>		<b>0.2354</b>	<b>0.2354</b>		<b>0.2354</b>	<b>0.2354</b>						<b>3,738.9351</b>

#### Mitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
General Light Industry	31593.2	0.3407	3.0974	2.6018	0.0186		0.2354	0.2354		0.2354	0.2354						3,738.9351
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.3407</b>	<b>3.0974</b>	<b>2.6018</b>	<b>0.0186</b>		<b>0.2354</b>	<b>0.2354</b>		<b>0.2354</b>	<b>0.2354</b>						<b>3,738.9351</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	13.1476	1.2100e-003	0.1331	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004							0.3047
Unmitigated	13.1476	1.2100e-003	0.1331	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004							0.3047

## 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	1.5012					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	11.6341					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	0.0123	1.2100e-003	0.1331	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004							0.3047
<b>Total</b>	<b>13.1476</b>	<b>1.2100e-003</b>	<b>0.1331</b>	<b>1.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>							<b>0.3047</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	1.5012					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	11.6341					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	0.0123	1.2100e-003	0.1331	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004							0.3047
<b>Total</b>	<b>13.1476</b>	<b>1.2100e-003</b>	<b>0.1331</b>	<b>1.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>							<b>0.3047</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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8th and Alameda Redevelopment Project Operation - Los Angeles-South Coast County, Winter

**8th and Alameda Redevelopment Project Operation**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	395.53	1000sqft	9.08	395,530.00	0
General Light Industry	413.66	1000sqft	9.50	413,660.00	0
Parking Lot	210.00	Space	1.89	84,000.00	0
Unenclosed Parking with Elevator	1,574.00	Space	14.17	629,600.00	0
High Turnover (Sit Down Restaurant)	7.50	1000sqft	0.17	7,500.00	0
Health Club	15.50	1000sqft	0.36	15,500.00	0
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2026
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	585	<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 - Consistency with SB100 for LADWP.
- Land Use - The land uses include existing building renovation of approximately 582,400 sf.
- Vehicle Trips - LADOT VMT Calculator
- Energy Use -
- Stationary Sources - Emergency Generators and Fire Pumps -
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CO2IntensityFactor	1227.89	585
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.25
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	8.40	7.91
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00

tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	0.00	736.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.00	338.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	0.00	3,511.00

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	18.9226	2.4100e-003	0.2665	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004							0.6100
Energy	0.4023	3.6573	3.0721	0.0219		0.2780	0.2780		0.2780	0.2780							4,414.7868
Mobile	4.4640	20.6491	54.9185	0.2266	21.4900	0.1744	21.6644	5.7494	0.1619	5.9114							23,179.1304
Stationary	0.6153	1.7200	1.5691	2.9600e-003		0.0905	0.0905		0.0905	0.0905							315.9212
<b>Total</b>	<b>24.4042</b>	<b>26.0288</b>	<b>59.8262</b>	<b>0.2515</b>	<b>21.4900</b>	<b>0.5438</b>	<b>22.0338</b>	<b>5.7494</b>	<b>0.5314</b>	<b>6.2808</b>							<b>27,910.4485</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	18.9226	2.4100e-003	0.2665	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004							0.6100
Energy	0.3723	3.3848	2.8432	0.0203		0.2572	0.2572		0.2572	0.2572							4,085.8949
Mobile	4.4640	20.6491	54.9185	0.2266	21.4900	0.1744	21.6644	5.7494	0.1619	5.9114							23,179.1304
Stationary	0.6153	1.7200	1.5691	2.9600e-003		0.0905	0.0905		0.0905	0.0905							315.9212
<b>Total</b>	<b>24.3742</b>	<b>25.7563</b>	<b>59.5973</b>	<b>0.2499</b>	<b>21.4900</b>	<b>0.5231</b>	<b>22.0131</b>	<b>5.7494</b>	<b>0.5106</b>	<b>6.2601</b>							<b>27,581.5565</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	4.4640	20.6491	54.9185	0.2266	21.4900	0.1744	21.6644	5.7494	0.1619	5.9114						23,179.1304
Unmitigated	4.4640	20.6491	54.9185	0.2266	21.4900	0.1744	21.6644	5.7494	0.1619	5.9114						23,179.1304

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
User Defined Commercial	3,511.00	736.00	338.00	7,662,480	7,662,480
Total	3,511.00	736.00	338.00	7,662,480	7,662,480

#### 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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
User Defined Commercial	0.00	7.91	0.00	0.00	100.00	0.00	100	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Parking Lot	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unenclosed Parking with Elevator	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Health Club	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
High Turnover (Sit Down Restaurant)	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
User Defined Commercial	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3723	3.3848	2.8432	0.0203		0.2572	0.2572		0.2572	0.2572							4,085.8949
NaturalGas Unmitigated	0.4023	3.6573	3.0721	0.0219		0.2780	0.2780		0.2780	0.2780							4,414.7868

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	20513	0.2212	2.0111	1.6893	0.0121		0.1528	0.1528		0.1528	0.1528						2,427.6354
General Office Building	11280.7	0.1217	1.1060	0.9290	6.6400e-003		0.0841	0.0841		0.0841	0.0841						1,335.0315
Health Club	768.63	8.2900e-003	0.0754	0.0633	4.5000e-004		5.7300e-003	5.7300e-003		5.7300e-003	5.7300e-003						90.9644
High Turnover (Sit Down Restaurant)	4741.64	0.0511	0.4649	0.3905	2.7900e-003		0.0353	0.0353		0.0353	0.0353						561.1554
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.4023</b>	<b>3.6573</b>	<b>3.0721</b>	<b>0.0220</b>		<b>0.2780</b>	<b>0.2780</b>		<b>0.2780</b>	<b>0.2780</b>						<b>4,414.7868</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	18.966	0.2045	1.8594	1.5619	0.0112		0.1413	0.1413		0.1413	0.1413						2,244.5569
General Office Building	10.1949	0.1100	0.9995	0.8396	6.0000e-003		0.0760	0.0760		0.0760	0.0760						1,206.5299
Health Club	0.710664	7.6600e-003	0.0697	0.0585	4.2000e-004		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003						84.1044
High Turnover (Sit Down Restaurant)	4.65333	0.0502	0.4562	0.3832	2.7400e-003		0.0347	0.0347		0.0347	0.0347						550.7037
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.3723</b>	<b>3.3848</b>	<b>2.8432</b>	<b>0.0203</b>		<b>0.2573</b>	<b>0.2573</b>		<b>0.2573</b>	<b>0.2573</b>						<b>4,085.8949</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Mitigated	18.9226	2.4100e-003	0.2665	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004						0.6100
Unmitigated	18.9226	2.4100e-003	0.2665	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004						0.6100

## 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	2.1679					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	16.7301					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	0.0245	2.4100e-003	0.2665	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004							0.6100
<b>Total</b>	<b>18.9226</b>	<b>2.4100e-003</b>	<b>0.2665</b>	<b>2.0000e-005</b>		<b>9.5000e-004</b>	<b>9.5000e-004</b>		<b>9.5000e-004</b>	<b>9.5000e-004</b>							<b>0.6100</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	2.1679					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	16.7301					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	0.0245	2.4100e-003	0.2665	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004							0.6100
<b>Total</b>	<b>18.9226</b>	<b>2.4100e-003</b>	<b>0.2665</b>	<b>2.0000e-005</b>		<b>9.5000e-004</b>	<b>9.5000e-004</b>		<b>9.5000e-004</b>	<b>9.5000e-004</b>							<b>0.6100</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0.25	12	500	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	lb/day										lb/day						
Emergency Generator - Diesel (200 - 200 HP)	0.6153	1.7200	1.5691	2.9600e-003		0.0905	0.0905		0.0905	0.0905							315.9212
<b>Total</b>	<b>0.6153</b>	<b>1.7200</b>	<b>1.5691</b>	<b>2.9600e-003</b>		<b>0.0905</b>	<b>0.0905</b>		<b>0.0905</b>	<b>0.0905</b>							<b>315.9212</b>

**11.0 Vegetation**

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**8TH & ALAMEDA - INTERSECTION PEAK HOUR VOLUMES  
FUTURE WITH PROJECT CONDITIONS (YEAR 2026)**

Study Intersections			Weekday AM Peak Hour											Weekday PM Peak Hour																								
#	N/S Street	E/W Street	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL	Total	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL											
1	Alameda Street	7th Street	182	982	139	107	722	146	111	693	129	111	337	63	3,722	47	802	115	132	459	98	152	869	145	138	826	107	3,890										
2	Alameda Street	8th Street	118	807	85	66	86	59	97	824	36	45	54	101	2,378	73	1,074	68	81	25	70	70	723	15	34	23	50	2,306										
3	Alameda Street	Olympic Boulevard	162	616	101	51	1,408	171	60	856	114	68	820	98	4,525	229	822	137	48	1,200	104	165	631	87	66	1,230	104	4,823										
4	Lemon Street	Olympic Boulevard	95	2	20	69	1,616	37	4	1	3	5	467	15	2,334	197	0	60	40	1,161	25	13	0	2	4	1,056	13	2,571										
5	Mateo Street	Olympic Boulevard	411	1	190	92	1,313	5	5	3	1	4	426	77	2,528	469	1	309	90	740	6	4	0	1	5	1,034	86	2,745										
															Max Hourly:	4,525											Max Hourly:	4,823										
															Max Daily:	45,250											Max Daily:	48,230										

**CalEEMod Outputs**

**Construction Emissions - Annual**

**CalEEMod Output - Annual Construction**

Year	CO2e
2023	1,912
2024	2,695
2025	2,116
2026	260
<b>30-year Amortized</b>	<b>233</b>

**Operational Emissions - Annual**

Category	Existing Uses	Existing Uses	Proposed Uses	Proposed Uses	Project (Buildout	Project (Buildout
	(Existing Year)	(Buildout Year)	(Buildout Year) No	(Buildout Year) With	Year) No	Year) - With
	CO2e	CO2e	MXD/PDFs	MXD/PDFs	MXD/PDFs	MXD/PDFs/MMs
Area	0	0	0	0	0	0
Energy	3161	2633	3661	3394	1028	761
Mobile	2715	2368	3840	2942	1471	574
EV and Solar		0	(191)	(415)	(191)	(415)
Stationary	0	0	7	7	7	7
Waste	86	86	126	126	40	40
Water	773	651	757	757	107	107
<b>Operations Total</b>	<b>6735</b>	<b>5737</b>	<b>8199</b>	<b>6811</b>	<b>2462</b>	<b>1074</b>
<b>Construction Amortized</b>			<b>233</b>	<b>233</b>	<b>233</b>	<b>233</b>
			<b>8432</b>	<b>7044</b>	<b>2695</b>	<b>1307</b>

**8th and Alameda Project**

VTM Calculations for CalEEMod Inputs (Buildout)

**VTM Summary**

Existing Generation Rates for Weekend Scalar (CalEEMod Defaults)					Rate (Daily)				Daily Trips				
	DU/TSF	Weekday	Saturday	Sunday	Weekday	Saturday	Sunday	Weekday	Saturday	Sunday	Weekday	Saturday	Sunday
General Light Industrial	ksf	582.4	6.97	1.32	0.68			4059					
Parking Lot	PS	724									769		396
<b>Generation Rates for Weekend Scalar (CalEEMod Defaults)</b>					<b>Rate (Daily)</b>				<b>Daily Trips</b>				
	DU/TSF	Weekday	Saturday	Sunday	Weekday	Saturday	Sunday	Weekday	Saturday	Sunday	Weekday	Saturday	Sunday
<b>General Light Industrial</b>													
Sound Stages (New Construction)	ksf	116.4	6.97	1.32	0.68			811	154	79			
Stage Support (New Construction)	ksf	4.5	6.97	1.32	0.68			31	6	3			
Mill/Shops (New Construction)	ksf	20.7	6.97	1.32	0.68			144	27	14			
Guard Booths (New Construction)	ksf	0.19	6.97	1.32	0.68			1	0	0			
Grip and Lighting Storage (Renovation)	ksf	24	6.97	1.32	0.68			167	32	16			
Commissary (Renovation)	ksf	16.5	6.97	1.32	0.68			115	22	11			
Sound Stages (Renovation)	ksf	156.1	6.97	1.32	0.68			1008	206	106			
Stage Support (Renovation)	ksf	15.6	6.97	1.32	0.68			109	21	11			
Mills/Shops (Renovation)	ksf	59.67	6.97	1.32	0.68			416	79	41			
Total:	ksf	413.66	6.97	1.32	0.68			2883	546	281			
<b>Fitness Center (Renovation)</b>	ksf	15.5	Don't Generate Separate Trips										
<b>Restaurant</b>													
Mezzanine Level Café-Renovation	ksf	1.7	Don't Generate Separate Trips										
Outdoor Dining-Renovation	ksf	5.8	Don't Generate Separate Trips										
Total:	ksf	7.5											
<b>General Office Building</b>													
Support/Office New Construction	ksf	87.3	11.03	2.46	1.05			963	215	92			
Stage Support/Office New Construction	ksf	20.7	11.03	2.46	1.05			228	51	22			
Support/Office Renovation	ksf	215.13	11.03	2.46	1.05			2373	529	226			
Office Suites Renovation	ksf	55.4	11.03	2.46	1.05			611	136	58			
Post Production Space (Renovation)	ksf	17	11.03	2.46	1.05			188	42	18			
Total:	ksf	395.53	11.03	2.46	1.05			4363	973	415			
<b>Total New Construction and Renovation:</b>	ksf	<b>832.19</b>						<b>7246</b>	<b>1519</b>	<b>697</b>			
Parking Lot	PS	210											
Unenclosed Parking Structure with Elevator	PS	1574											
<b>General Retail</b>													
High-Turnover Sit-Down Restaurant	ksf	29.828	44.32	42.04	20.43			1322	1254	609			
Residential (DU)	DU	10.805	127.15	158.37	131.84			1374	1711	1425			
Parking Structure Unenclosed	PS	270	4.2	4.98	3.65			1134	1345	986			
Parking Structure Enclosed	PS	0	0	0	0			0	0	0			
Total:	PS	320	0	0	0			25568	8867	5109			

	Project Weekday Trips	Saturday Trips	Sunday Trips	Saturday Vs. Sunday Vs.	
				Weekday Ratio	Weekday Ratio
Existing Daily Trips	4059	769	396	0.19	0.10
Project Daily Trips	7246	1519	697	0.21	0.10

**Project without TDM (MXD Data)**

	Unadjusted Trips		MXD Trips	Average Trip Length	Unadjusted Pre-MXD VMT		Percent Reduction for MXD
	Pre-MXD	MXD Adjustment			MXD VMT	MXD VMT	
Home Based Work Production	0	0.0%	0	7.1	0	0	
Home Based Other Production	0	0.0%	0	5.1	0	0	
Non-Home Based Other Production	548	-4.4%	524	8.3	4548	4349	
Home-Based Work Attraction	2429	-22.1%	1891	8.3	20161	15695	
Home-Based Other Attraction	1095	-47.8%	572	6.9	7,556	3947	
Non-Home Based Other Attraction	548	-4.4%	524	7.2	3946	3773	
<b>Total</b>	<b>4,620</b>		<b>3,511</b>		<b>36,211</b>	<b>27,764</b>	<b>23%</b>
Residential VMT			0		0.0	0	Population
Work VMT			1,891		7.5	2094	Employees

13.25883477

**Project with TDM (MXD Data)**

	Proposed Project		Project with Mitigation Measures		Percent Reduction for MXD
	TDM Adjustment	Project Trips	Project VMT	Mitigated Trips	
Home Based Work Production	-1.2%	0	0	-1.2%	0
Home Based Other Production	-1.2%	0	0	-1.2%	0
Non-Home Based Other Production	-1.2%	517	4295	-1.2%	517
Home-Based Work Attraction	-1.2%	1867	15499	-1.2%	1867
Home-Based Other Attraction	-1.2%	565	3898	-1.2%	565
Non-Home Based Other Attraction	-1.2%	517	3726	-1.2%	517
<b>Total</b>		<b>3,466</b>	<b>27,418</b>		<b>3,466</b>
Residential VMT			0		0.0
			15,499		7.4

24%

Source: Gibson Transportation Consulting, Inc.

**CalEEMod Inputs - PASTE THIS INTO CALEEMOD INPUT FILE**

VehicleTripsandUseSubType	VehicleTripsandUseSubType	WD_TR	ST_TR	SU_TR	HW_TL	HS_TL	HO_TL	CC_TL	CW_TL	CNW_TL	PR_TP	DV_TP	PB_TP	HW_TTP	HS_TTP	HO_TTP	CC_TTP	CW_TTP	CNW_TTP
Existing User Defined Commercial	User Defined Unit	2,933	555	286	0	0	0	7.63	0	0	100	0	0	0	0	0	100	0	0
No MXD User Defined Res. (VMT)	User Defined Unit	4,620	969	444	0	0	0	7.84	0	0	100	0	0	0	0	0	100	0	0
Project User Defined Res. (VMT)	User Defined Unit	3,511	736	338	0	0	0	7.91	0	0	100	0	0	0	0	0	100	0	0
Project TDM/MM User Defined Res. (VMT)	User Defined Unit	3,466	727	333	0	0	0	7.91	0	0	100	0	0	0	0	0	100	0	0

**GHG Emissions Reductions for Commercial Uses Associated with City Codes (Electric Vehicle Charging Stations/Plugins)**

**Step 1: Estimating GHG Emissions Reduction to Replace Gasoline/Diesel Vehicle with Electric Vehicle**

LADWP Electricity Emission Factor <sup>1+A32</sup>	0.27 MTCO2E/MWh
Fuel Economy of Electric Vehicle <sup>2</sup>	0.33 kWh/mile
Gasoline/Diesel CO2 Emissions While Running <sup>3</sup>	204.6 grams/mile
Annual VMT Reduction per Parking Spot <sup>4</sup>	9,125 miles/charging station/year
Number of On-Site Chargers <sup>5</sup>	179
Annual VMT Reduction All Stations/Plugins (Based on Charge)	1,633,375

**Step 2: Estimating GHG Emissions Reduction from Installing Electric Vehicle Charging Stations/Plugins**

GHG Emissions of Gasoline/Diesel Vehicle	334 MTCO2E/MWh
GHG Emissions of Electric Vehicle	143 MTCO2E/MWh
GHG Emissions Reduction	191 MTCO2E/MWh

Notes:

- 1) CO2 intensity factor reflects a 2026 RPS for LADWP (585 lbs of CO2E/MWh).
- 2) US Department of Energy, 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. Available at: [http://afdc.energy.gov/fuels/electricity\\_benefits.html](http://afdc.energy.gov/fuels/electricity_benefits.html).
- 3) CARB, 2017. EMFAC2014, running exhaust emission rate for CO2 and CH4 for light duty gasoline- and diesel-powered vehicles in Los Angeles, aggregated for all models and speeds, averaged over all seasons for 2026.
- 4) Annual VMT reduction estimated based on an estimate of 10 hours of charge time for a Level 2 charging station that charges at a rate of 25 driving range per hour. It is conservatively assumed that 20% of the miles charged would be driven by the charged vehicles.
- 5) City Code requires 10% of parking spaces to be equipped with EV chargers.

**GHG Emissions Reductions for Solar Panels**

Solar Array:	500 kW		
Sunwatts:	6.13 solar hours per day	Source: <a href="https://sunwatts.com/calculate-how-much-solar/">https://sunwatts.com/calculate-how-much-solar/</a>	for los angels
	3,065 daily kWh		
	75.00% efficiency		
	839 annual MWh		
CO2 Intensity (lb/MWh)	585 CO <sub>2</sub>	0.029 CH <sub>4</sub>	0.006 N <sub>2</sub> O
Global Warming Potential	1 CO <sub>2</sub>	25 CH <sub>4</sub>	298 N <sub>2</sub> O
CO2e	(223.60) mtons/yr		

**Calculation of Parking Garage Ventilation Energy Factor**

Full Power Ventilation Flowrate:	0.5 cfm/sf	Section 120.6(c) of California Building Code, Mandatory Requirements for Enclosed Parking Garages, provides a minimum 0.15 cfm/sf flowrate. Conservatively assumed 0.5 cfm/sf.
Fan Horsepower/1,000 sf:	0.19 hp/1,000 sf	Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%)
Setback Mode Power Ventilation Flowrate:	0.05 cfm/sf	Energy Star technical reference recommends a minimum flow rate of 0.05 cfm/sf when fan is in setback mode.
Fan Horsepower/1,000 sf:	0.02 hp/1,000 sf	Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%)
Fan Horsepower/1,000 sf per Day:	1.51 hp/1,000 sf/Day	Energy Star technical reference recommends 6 hours per day at full power and 18 hours per day at 0.05 cfm/sf in setback mode
Horsepower to kW Conv.	0.746 kW per hp	
Fan kW/1,000 sf per Day:	1.13 kW/1,000 sf/Day	
Annual kW/sf	0.41 kWh/sf Annual	
Adjustment:	0.46 kWh/sf Annual	(CalEEMod applies mitigation to all land uses. So, this adjustment accounts for the 10% reduction in electricity associated with Title 24)

**SB100 - Renewable Portfolio Standards**

<b>Year</b>	<b>% RPS</b>	<b>RPS Reduction (%)</b>	<b>Carbon Intensity (lbs/MWh)</b>
2015	20	-20%	1131
2016	29	-31%	834
2017	31	-6%	780
2020	33	-6%	733
2026	46	-29%	520
2030	60	-23%	403
2036	65	-8%	372
2045	100	-35%	0

<b>Build Out Year</b>	<b>Carbon Intensity (lbs/MWh)</b>
2021	739
2026	585



8th and Alameda Redevelopment Construction - Los Angeles-South Coast County, Annual

**8th and Alameda Redevelopment Construction  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	395.53	1000sqft	9.08	395,530.00	0
General Light Industry	436.66	1000sqft	10.02	436,660.00	0
Parking Lot	210.00	Space	1.89	84,000.00	0
Unenclosed Parking with Elevator	1,574.00	Space	14.17	629,600.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12	<b>Operational Year</b>	2026		
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The land uses include existing building renovation of approximately 582,400 sf.

Construction Phase - Site Specific Construction Schedule

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Off-road Equipment - Site Specific Construction Equipment Mix

Trips and VMT - Site Specific Trips for Construction

Demolition -

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	478.00



tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	HaulingTripNumber	692.00	0.00
tblTripsAndVMT	HaulingTripNumber	396.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,187.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,138.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,363.00	0.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	24.00
tblTripsAndVMT	VendorTripLength	6.90	59.00
tblTripsAndVMT	VendorTripLength	6.90	59.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	60.00
tblTripsAndVMT	VendorTripNumber	253.00	60.00
tblTripsAndVMT	VendorTripNumber	253.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	253.00	150.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	253.00	60.00
tblTripsAndVMT	VendorTripNumber	253.00	150.00
tblTripsAndVMT	VendorTripNumber	253.00	60.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	23.00	40.00
tblTripsAndVMT	WorkerTripNumber	122.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	610.00	800.00
tblTripsAndVMT	WorkerTripNumber	610.00	400.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	23.00	40.00
tblTripsAndVMT	WorkerTripNumber	25.00	60.00
tblTripsAndVMT	WorkerTripNumber	20.00	60.00
tblTripsAndVMT	WorkerTripNumber	610.00	80.00

tblTripsAndVMT	WorkerTripNumber	20.00	60.00
tblTripsAndVMT	WorkerTripNumber	610.00	100.00
tblTripsAndVMT	WorkerTripNumber	610.00	200.00
tblTripsAndVMT	WorkerTripNumber	610.00	120.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.6568	7.1452	5.6658	0.0206	1.2124	0.2142	1.4266	0.4444	0.2020	0.6464						1,912.3278
2024	2.5156	8.9309	10.2708	0.0298	1.0408	0.2562	1.2970	0.2793	0.2457	0.5250						2,695.1295
2025	3.0781	4.3667	8.5330	0.0236	1.6346	0.1428	1.7773	0.4358	0.1367	0.5725						2,115.8029
2026	0.4552	0.5340	0.9904	2.8900e-003	0.2014	0.0163	0.2177	0.0538	0.0156	0.0694						260.2785
<b>Maximum</b>	<b>3.0781</b>	<b>8.9309</b>	<b>10.2708</b>	<b>0.0298</b>	<b>1.6346</b>	<b>0.2562</b>	<b>1.7773</b>	<b>0.4444</b>	<b>0.2457</b>	<b>0.6464</b>						<b>2,695.1295</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.6568	7.1452	5.6658	0.0206	0.7203	0.2142	0.9344	0.2403	0.2020	0.4423						1,912.3269
2024	2.5156	8.9309	10.2708	0.0298	1.0408	0.2562	1.2970	0.2793	0.2457	0.5250						2,695.1282
2025	3.0781	4.3667	8.5330	0.0236	1.6346	0.1428	1.7773	0.4358	0.1367	0.5725						2,115.8021
2026	0.4552	0.5340	0.9904	2.8900e-003	0.2014	0.0163	0.2177	0.0538	0.0156	0.0694						260.2784
<b>Maximum</b>	<b>3.0781</b>	<b>8.9309</b>	<b>10.2708</b>	<b>0.0298</b>	<b>1.6346</b>	<b>0.2562</b>	<b>1.7773</b>	<b>0.4358</b>	<b>0.2457</b>	<b>0.5725</b>						<b>2,695.1282</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>12.03</b>	<b>0.00</b>	<b>10.43</b>	<b>16.82</b>	<b>0.00</b>	<b>11.26</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>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	3.2480	3.2480
2	9-1-2023	11-30-2023	3.3975	3.3975
3	12-1-2023	2-29-2024	3.2508	3.2508
4	3-1-2024	5-31-2024	2.9305	2.9305
5	6-1-2024	8-31-2024	3.2016	3.2016
6	9-1-2024	11-30-2024	2.4327	2.4327
7	12-1-2024	2-28-2025	2.0148	2.0148
8	3-1-2025	5-31-2025	2.0148	2.0148
9	6-1-2025	8-31-2025	2.0065	2.0065
10	9-1-2025	11-30-2025	1.6307	1.6307

11	12-1-2025	2-28-2026	1.3113	1.3113
12	3-1-2026	5-31-2026	0.1281	0.1281
		Highest	3.3975	3.3975

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	New Buildings-Demolition	Demolition	6/1/2023	8/23/2023	5	60	
2	Parking Garage-Demolition	Demolition	6/1/2023	7/10/2023	5	28	
3	Existing Buildings-Demolition	Demolition	6/1/2023	11/8/2023	5	115	
4	Parking Garage-Grading & Utilities	Grading	7/11/2023	8/18/2023	5	29	
5	Parking Garage-Foundation/Structure	Building Construction	8/19/2023	2/27/2024	5	137	
6	New Buildings-Grading & Utilities	Site Preparation	8/24/2023	11/15/2023	5	60	
7	Existing Buildings-Structural	Building Construction	11/9/2023	9/24/2024	5	229	
8	New Buildings-Flooring	Building Construction	11/16/2023	10/30/2024	5	250	
9	Parking Garage-Interior	Building Construction	2/28/2024	8/6/2024	5	115	
10	Architectural Coating	Architectural Coating	5/1/2024	2/27/2026	5	478	
11	Parking Garage-Paving/Landscape	Paving	8/7/2024	9/3/2024	5	20	
12	Existing Buildings-Interior	Building Construction	9/25/2024	2/27/2026	5	373	
13	New Buildings-Interior	Building Construction	10/31/2024	9/19/2025	5	232	
14	New Buildings-Paving/Landscape	Paving	9/22/2025	10/29/2025	5	28	
15	Existing Buildings-Paving/Landscape	Paving	3/1/2026	4/1/2026	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 16.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,248,285; Non-Residential Outdoor: 416,095; Striped Parking

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
New Buildings-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
New Buildings-Demolition	Excavators	2	8.00	158	0.38
New Buildings-Demolition	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
New Buildings-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
New Buildings-Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Parking Garage-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Parking Garage-Demolition	Excavators	2	8.00	158	0.38
Parking Garage-Demolition	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Parking Garage-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
Parking Garage-Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Existing Buildings-Demolition	Aerial Lifts	4	8.00	63	0.31
Existing Buildings-Demolition	Air Compressors	4	8.00	78	0.48
Existing Buildings-Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Existing Buildings-Demolition	Excavators	0	8.00	158	0.38
Existing Buildings-Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Existing Buildings-Demolition	Rubber Tired Loaders	2	6.00	203	0.36
Parking Garage-Grading & Utilities	Excavators	1	8.00	158	0.38

Parking Garage-Grading & Utilities	Graders	1	8.00	187	0.41
Parking Garage-Grading & Utilities	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Grading & Utilities	Rubber Tired Dozers	2	8.00	247	0.40
Parking Garage-Grading & Utilities	Rubber Tired Loaders	2	8.00	203	0.36
Parking Garage-Grading & Utilities	Scrapers	0	8.00	367	0.48
Parking Garage-Grading & Utilities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Parking Garage-Grading & Utilities	Trenchers	1	8.00	78	0.50
Parking Garage-Foundation/Structure	Air Compressors	1	8.00	78	0.48
Parking Garage-Foundation/Structure	Bore/Drill Rigs	1	8.00	221	0.50
Parking Garage-Foundation/Structure	Cement and Mortar Mixers	2	8.00	9	0.56
Parking Garage-Foundation/Structure	Concrete/Industrial Saws	1	8.00	81	0.73
Parking Garage-Foundation/Structure	Cranes	1	7.00	231	0.29
Parking Garage-Foundation/Structure	Forklifts	3	8.00	89	0.20
Parking Garage-Foundation/Structure	Generator Sets	0	8.00	84	0.74
Parking Garage-Foundation/Structure	Plate Compactors	2	8.00	8	0.43
Parking Garage-Foundation/Structure	Pumps	1	8.00	84	0.74
Parking Garage-Foundation/Structure	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Parking Garage-Foundation/Structure	Welders	2	8.00	46	0.45
New Buildings-Grading & Utilities	Excavators	1	8.00	158	0.38
New Buildings-Grading & Utilities	Graders	1	8.00	187	0.41
New Buildings-Grading & Utilities	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Grading & Utilities	Rubber Tired Dozers	2	8.00	247	0.40
New Buildings-Grading & Utilities	Rubber Tired Loaders	2	8.00	203	0.36
New Buildings-Grading & Utilities	Tractors/Loaders/Backhoes	0	8.00	97	0.37
New Buildings-Grading & Utilities	Trenchers	1	8.00	78	0.50
Existing Buildings-Structural Upgrades	Cement and Mortar Mixers	2	8.00	9	0.56
Existing Buildings-Structural Upgrades	Concrete/Industrial Saws	1	8.00	81	0.73
Existing Buildings-Structural Upgrades	Cranes	1	7.00	231	0.29
Existing Buildings-Structural Upgrades	Excavators	1	8.00	158	0.38
Existing Buildings-Structural Upgrades	Forklifts	2	8.00	89	0.20
Existing Buildings-Structural Upgrades	Generator Sets	0	8.00	84	0.74
Existing Buildings-Structural Upgrades	Plate Compactors	2	8.00	8	0.43
Existing Buildings-Structural Upgrades	Rough Terrain Forklifts	2	8.00	100	0.40
Existing Buildings-Structural Upgrades	Skid Steer Loaders	2	8.00	65	0.37
Existing Buildings-Structural Upgrades	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Existing Buildings-Structural Upgrades	Welders	2	8.00	46	0.45
New Buildings-Foundation/Structure	Air Compressors	1	8.00	78	0.48
New Buildings-Foundation/Structure	Bore/Drill Rigs	1	8.00	221	0.50
New Buildings-Foundation/Structure	Cement and Mortar Mixers	2	8.00	9	0.56
New Buildings-Foundation/Structure	Concrete/Industrial Saws	1	8.00	81	0.73
New Buildings-Foundation/Structure	Cranes	1	7.00	231	0.29
New Buildings-Foundation/Structure	Forklifts	3	8.00	89	0.20
New Buildings-Foundation/Structure	Generator Sets	0	8.00	84	0.74
New Buildings-Foundation/Structure	Plate Compactors	2	8.00	8	0.43
New Buildings-Foundation/Structure	Pumps	1	8.00	84	0.74
New Buildings-Foundation/Structure	Tractors/Loaders/Backhoes	0	7.00	97	0.37
New Buildings-Foundation/Structure	Welders	2	8.00	46	0.45
Parking Garage-Interior	Aerial Lifts	3	8.00	63	0.31
Parking Garage-Interior	Air Compressors	3	8.00	78	0.48
Parking Garage-Interior	Cranes	1	7.00	231	0.29

Parking Garage-Interior	Forklifts	3	8.00	89	0.20
Parking Garage-Interior	Generator Sets	0	8.00	84	0.74
Parking Garage-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Parking Garage-Interior	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Parking Garage-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
Parking Garage-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
Parking Garage-Paving/Landscape	Forklifts	1	8.00	89	0.20
Parking Garage-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
Parking Garage-Paving/Landscape	Pavers	0	8.00	130	0.42
Parking Garage-Paving/Landscape	Paving Equipment	1	8.00	132	0.36
Parking Garage-Paving/Landscape	Rollers	0	8.00	80	0.38
Parking Garage-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37
Existing Buildings-Interior	Aerial Lifts	3	8.00	63	0.31
Existing Buildings-Interior	Air Compressors	3	8.00	78	0.48
Existing Buildings-Interior	Cranes	1	7.00	231	0.29
Existing Buildings-Interior	Forklifts	3	8.00	89	0.20
Existing Buildings-Interior	Generator Sets	0	8.00	84	0.74
Existing Buildings-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Existing Buildings-Interior	Welders	2	8.00	46	0.45
New Buildings-Interior	Aerial Lifts	3	8.00	63	0.31
New Buildings-Interior	Air Compressors	3	8.00	78	0.48
New Buildings-Interior	Cranes	1	7.00	231	0.29
New Buildings-Interior	Forklifts	3	8.00	89	0.20
New Buildings-Interior	Generator Sets	0	8.00	84	0.74
New Buildings-Interior	Tractors/Loaders/Backhoes	0	7.00	97	0.37
New Buildings-Interior	Welders	2	8.00	46	0.45
New Buildings-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
New Buildings-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
New Buildings-Paving/Landscape	Forklifts	1	8.00	89	0.20
New Buildings-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
New Buildings-Paving/Landscape	Pavers	0	8.00	130	0.42
New Buildings-Paving/Landscape	Paving Equipment	1	8.00	132	0.36
New Buildings-Paving/Landscape	Rollers	0	8.00	80	0.38
New Buildings-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37
Existing Buildings-Paving/Landscape	Cement and Mortar Mixers	1	8.00	9	0.56
Existing Buildings-Paving/Landscape	Concrete/Industrial Saws	1	8.00	81	0.73
Existing Buildings-Paving/Landscape	Forklifts	1	8.00	89	0.20
Existing Buildings-Paving/Landscape	Other Construction Equipment	1	1.00	172	0.42
Existing Buildings-Paving/Landscape	Pavers	0	8.00	130	0.42
Existing Buildings-Paving/Landscape	Paving Equipment	1	8.00	132	0.36
Existing Buildings-Paving/Landscape	Rollers	0	8.00	80	0.38
Existing Buildings-Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37

### 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
New Buildings-Demolition	9	40.00	40.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Demolition	9	40.00	40.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT
Existing Buildings-Demolition	10	60.00	40.00	0.00	14.70	24.00	20.00	LD_Mix	HHDT	HHDT

Parking Garage-Grading & Utilities	8	60.00	40.00	0.00	14.70	59.00	20.00	LD_Mix	HHDT	HHDT
Parking Garage-Grading & Utilities	14	80.00	150.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
Foundation/Structure-New Buildings-Grading & Utilities	8	60.00	30.00	0.00	14.70	59.00	20.00	LD_Mix	HHDT	HHDT
Existing Buildings-Grading & Utilities	15	100.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Structural/Inroads-New Buildings-Grading & Utilities	14	200.00	150.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
Foundation/Structure-Parking Garage-Interior	12	120.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Parking Garage-Paving/Landscape	6	40.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Existing Buildings-Interior	12	800.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
New Buildings-Interior	12	400.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
New Buildings-Paving/Landscape	6	40.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Existing Buildings-Paving/Landscape	6	40.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 New Buildings-Demolition - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0749	0.0000	0.0749	0.0113	0.0000	0.0113						0.0000
Off-Road	0.0750	0.7450	0.5987	1.3100e-003		0.0330	0.0330		0.0304	0.0304						116.3404
<b>Total</b>	<b>0.0750</b>	<b>0.7450</b>	<b>0.5987</b>	<b>1.3100e-003</b>	<b>0.0749</b>	<b>0.0330</b>	<b>0.1079</b>	<b>0.0113</b>	<b>0.0304</b>	<b>0.0417</b>						<b>116.3404</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	7.3100e-003	0.2248	0.0807	1.0300e-003	0.0248	4.3000e-004	0.0252	6.8000e-003	4.1000e-004	7.2100e-003						101.8912
Worker	4.5500e-003	3.2800e-003	0.0385	1.2000e-004	0.0132	1.0000e-004	0.0133	3.4900e-003	9.0000e-005	3.5900e-003						11.0380
<b>Total</b>	<b>0.0119</b>	<b>0.2280</b>	<b>0.1192</b>	<b>1.1500e-003</b>	<b>0.0379</b>	<b>5.3000e-004</b>	<b>0.0384</b>	<b>0.0103</b>	<b>5.0000e-004</b>	<b>0.0108</b>						<b>112.9291</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0292	0.0000	0.0292	4.4200e-003	0.0000	4.4200e-003						0.0000



Off-Road	0.0750	0.7450	0.5987	1.3100e-003		0.0330	0.0330		0.0304	0.0304						116.3402
<b>Total</b>	<b>0.0750</b>	<b>0.7450</b>	<b>0.5987</b>	<b>1.3100e-003</b>	<b>0.0292</b>	<b>0.0330</b>	<b>0.0622</b>	<b>4.4200e-003</b>	<b>0.0304</b>	<b>0.0348</b>						<b>116.3402</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	7.3100e-003	0.2248	0.0807	1.0300e-003	0.0248	4.3000e-004	0.0252	6.8000e-003	4.1000e-004	7.2100e-003						101.8912
Worker	4.5500e-003	3.2800e-003	0.0385	1.2000e-004	0.0132	1.0000e-004	0.0133	3.4900e-003	9.0000e-005	3.5900e-003						11.0380
<b>Total</b>	<b>0.0119</b>	<b>0.2280</b>	<b>0.1192</b>	<b>1.1500e-003</b>	<b>0.0379</b>	<b>5.3000e-004</b>	<b>0.0384</b>	<b>0.0103</b>	<b>5.0000e-004</b>	<b>0.0108</b>						<b>112.9291</b>

**3.3 Parking Garage-Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0428	0.0000	0.0428	6.4800e-003	0.0000	6.4800e-003						0.0000
Off-Road	0.0350	0.3477	0.2794	6.1000e-004		0.0154	0.0154		0.0142	0.0142						54.2922
<b>Total</b>	<b>0.0350</b>	<b>0.3477</b>	<b>0.2794</b>	<b>6.1000e-004</b>	<b>0.0428</b>	<b>0.0154</b>	<b>0.0582</b>	<b>6.4800e-003</b>	<b>0.0142</b>	<b>0.0207</b>						<b>54.2922</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	3.4100e-003	0.1049	0.0377	4.8000e-004	0.0116	2.0000e-004	0.0118	3.1700e-003	1.9000e-004	3.3600e-003						47.5492
Worker	2.1200e-003	1.5300e-003	0.0179	6.0000e-005	6.1400e-003	5.0000e-005	6.1800e-003	1.6300e-003	4.0000e-005	1.6700e-003						5.1511
<b>Total</b>	<b>5.5300e-003</b>	<b>0.1064</b>	<b>0.0556</b>	<b>5.4000e-004</b>	<b>0.0177</b>	<b>2.5000e-004</b>	<b>0.0179</b>	<b>4.8000e-003</b>	<b>2.3000e-004</b>	<b>5.0300e-003</b>						<b>52.7003</b>

**Mitigated Construction On-Site**

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

Fugitive Dust					0.0167	0.0000	0.0167	2.5300e-003	0.0000	2.5300e-003						0.0000
Off-Road	0.0350	0.3477	0.2794	6.1000e-004		0.0154	0.0154		0.0142	0.0142						54.2921
<b>Total</b>	<b>0.0350</b>	<b>0.3477</b>	<b>0.2794</b>	<b>6.1000e-004</b>	<b>0.0167</b>	<b>0.0154</b>	<b>0.0321</b>	<b>2.5300e-003</b>	<b>0.0142</b>	<b>0.0167</b>						<b>54.2921</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	3.4100e-003	0.1049	0.0377	4.8000e-004	0.0116	2.0000e-004	0.0118	3.1700e-003	1.9000e-004	3.3600e-003						47.5492
Worker	2.1200e-003	1.5300e-003	0.0179	6.0000e-005	6.1400e-003	5.0000e-005	6.1800e-003	1.6300e-003	4.0000e-005	1.6700e-003						5.1511
<b>Total</b>	<b>5.5300e-003</b>	<b>0.1064</b>	<b>0.0556</b>	<b>5.4000e-004</b>	<b>0.0177</b>	<b>2.5000e-004</b>	<b>0.0179</b>	<b>4.8000e-003</b>	<b>2.3000e-004</b>	<b>5.0300e-003</b>						<b>52.7003</b>

**3.4 Existing Buildings-Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1284	0.0000	0.1284	0.0194	0.0000	0.0194						0.0000
Off-Road	0.0901	0.7512	0.9368	1.8400e-003		0.0315	0.0315		0.0307	0.0307						160.3873
<b>Total</b>	<b>0.0901</b>	<b>0.7512</b>	<b>0.9368</b>	<b>1.8400e-003</b>	<b>0.1284</b>	<b>0.0315</b>	<b>0.1599</b>	<b>0.0194</b>	<b>0.0307</b>	<b>0.0502</b>						<b>160.3873</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0140	0.4308	0.1547	1.9700e-003	0.0474	8.2000e-004	0.0483	0.0130	7.9000e-004	0.0138						195.2914
Worker	0.0131	9.4400e-003	0.1105	3.5000e-004	0.0378	2.9000e-004	0.0381	0.0100	2.7000e-004	0.0103						31.7342
<b>Total</b>	<b>0.0271</b>	<b>0.4402</b>	<b>0.2652</b>	<b>2.3200e-003</b>	<b>0.0852</b>	<b>1.1100e-003</b>	<b>0.0864</b>	<b>0.0231</b>	<b>1.0600e-003</b>	<b>0.0241</b>						<b>227.0256</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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.0501	0.0000	0.0501	7.5800e-003	0.0000	7.5800e-003						0.0000
Off-Road	0.0901	0.7512	0.9368	1.8400e-003		0.0315	0.0315		0.0307	0.0307						160.3871
<b>Total</b>	<b>0.0901</b>	<b>0.7512</b>	<b>0.9368</b>	<b>1.8400e-003</b>	<b>0.0501</b>	<b>0.0315</b>	<b>0.0816</b>	<b>7.5800e-003</b>	<b>0.0307</b>	<b>0.0383</b>						<b>160.3871</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0140	0.4308	0.1547	1.9700e-003	0.0474	8.2000e-004	0.0483	0.0130	7.9000e-004	0.0138						195.2914
Worker	0.0131	9.4400e-003	0.1105	3.5000e-004	0.0378	2.9000e-004	0.0381	0.0100	2.7000e-004	0.0103						31.7342
<b>Total</b>	<b>0.0271</b>	<b>0.4402</b>	<b>0.2652</b>	<b>2.3200e-003</b>	<b>0.0852</b>	<b>1.1100e-003</b>	<b>0.0864</b>	<b>0.0231</b>	<b>1.0600e-003</b>	<b>0.0241</b>						<b>227.0256</b>

**3.5 Parking Garage-Grading & Utilities - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1828	0.0000	0.1828	0.0969	0.0000	0.0969						0.0000
Off-Road	0.0417	0.4267	0.2505	6.6000e-004		0.0188	0.0188		0.0173	0.0173						58.4533
<b>Total</b>	<b>0.0417</b>	<b>0.4267</b>	<b>0.2505</b>	<b>6.6000e-004</b>	<b>0.1828</b>	<b>0.0188</b>	<b>0.2016</b>	<b>0.0969</b>	<b>0.0173</b>	<b>0.1142</b>						<b>58.4533</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	7.7500e-003	0.2036	0.0864	1.1400e-003	0.0294	4.9000e-004	0.0299	8.0700e-003	4.7000e-004	8.5400e-003						113.2040
Worker	3.3000e-003	2.3800e-003	0.0279	9.0000e-005	9.5300e-003	7.0000e-005	9.6100e-003	2.5300e-003	7.0000e-005	2.6000e-003						8.0025
<b>Total</b>	<b>0.0111</b>	<b>0.2060</b>	<b>0.1143</b>	<b>1.2300e-003</b>	<b>0.0389</b>	<b>5.6000e-004</b>	<b>0.0395</b>	<b>0.0106</b>	<b>5.4000e-004</b>	<b>0.0111</b>						<b>121.2065</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0713	0.0000	0.0713	0.0378	0.0000	0.0378						0.0000
Off-Road	0.0417	0.4267	0.2505	6.6000e-004		0.0188	0.0188		0.0173	0.0173						58.4533
<b>Total</b>	<b>0.0417</b>	<b>0.4267</b>	<b>0.2505</b>	<b>6.6000e-004</b>	<b>0.0713</b>	<b>0.0188</b>	<b>0.0901</b>	<b>0.0378</b>	<b>0.0173</b>	<b>0.0550</b>						<b>58.4533</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	7.7500e-003	0.2036	0.0864	1.1400e-003	0.0294	4.9000e-004	0.0299	8.0700e-003	4.7000e-004	8.5400e-003						113.2040
Worker	3.3000e-003	2.3800e-003	0.0279	9.0000e-005	9.5300e-003	7.0000e-005	9.6100e-003	2.5300e-003	7.0000e-005	2.6000e-003						8.0025
<b>Total</b>	<b>0.0111</b>	<b>0.2060</b>	<b>0.1143</b>	<b>1.2300e-003</b>	<b>0.0389</b>	<b>5.6000e-004</b>	<b>0.0395</b>	<b>0.0106</b>	<b>5.4000e-004</b>	<b>0.0111</b>						<b>121.2065</b>

**3.6 Parking Garage-Foundation/Structure - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1166	0.9221	1.0100	2.0600e-003		0.0427	0.0427		0.0413	0.0413						174.2136
<b>Total</b>	<b>0.1166</b>	<b>0.9221</b>	<b>1.0100</b>	<b>2.0600e-003</b>		<b>0.0427</b>	<b>0.0427</b>		<b>0.0413</b>	<b>0.0413</b>						<b>174.2136</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0181	0.7643	0.1945	2.2400e-003	0.0424	8.5000e-004	0.0432	0.0116	8.1000e-004	0.0125						221.1213
Worker	0.0144	0.0104	0.1218	3.9000e-004	0.0416	3.2000e-004	0.0420	0.0111	3.0000e-004	0.0114						34.9536
<b>Total</b>	<b>0.0325</b>	<b>0.7747</b>	<b>0.3163</b>	<b>2.6300e-003</b>	<b>0.0840</b>	<b>1.1700e-003</b>	<b>0.0852</b>	<b>0.0227</b>	<b>1.1100e-003</b>	<b>0.0238</b>						<b>256.0749</b>

**Mitigated Construction On-Site**







**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0385	0.3330	0.4172	7.0000e-004		0.0142	0.0142		0.0135	0.0135						59.6239
<b>Total</b>	<b>0.0385</b>	<b>0.3330</b>	<b>0.4172</b>	<b>7.0000e-004</b>		<b>0.0142</b>	<b>0.0142</b>		<b>0.0135</b>	<b>0.0135</b>						<b>59.6239</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	2.4000e-003	0.0786	0.0252	2.7000e-004	6.9900e-003	9.0000e-005	7.0800e-003	2.0200e-003	9.0000e-005	2.1100e-003						26.3075
Worker	7.0200e-003	5.0600e-003	0.0593	1.9000e-004	0.0203	1.6000e-004	0.0204	5.3800e-003	1.4000e-004	5.5300e-003						17.0169
<b>Total</b>	<b>9.4200e-003</b>	<b>0.0837</b>	<b>0.0845</b>	<b>4.6000e-004</b>	<b>0.0273</b>	<b>2.5000e-004</b>	<b>0.0275</b>	<b>7.4000e-003</b>	<b>2.3000e-004</b>	<b>7.6400e-003</b>						<b>43.3244</b>

**3.8 Existing Buildings-Structural Upgrades - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1892	1.6324	2.1560	3.6600e-003		0.0660	0.0660		0.0627	0.0627						309.4070
<b>Total</b>	<b>0.1892</b>	<b>1.6324</b>	<b>2.1560</b>	<b>3.6600e-003</b>		<b>0.0660</b>	<b>0.0660</b>		<b>0.0627</b>	<b>0.0627</b>						<b>309.4070</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0122	0.4065	0.1268	1.4000e-003	0.0363	4.7000e-004	0.0368	0.0105	4.5000e-004	0.0109						135.9689
Worker	0.0345	0.0240	0.2864	9.5000e-004	0.1052	8.0000e-004	0.1060	0.0279	7.4000e-004	0.0287						85.5629







Vendor	0.0413	1.7393	0.4482	5.0900e-003	0.0972	1.9100e-003	0.0991	0.0267	1.8300e-003	0.0285						504.4824
Worker	0.0783	0.0544	0.6505	2.1500e-003	0.2389	1.8300e-003	0.2407	0.0635	1.6800e-003	0.0651						194.2990
<b>Total</b>	<b>0.1197</b>	<b>1.7937</b>	<b>1.0987</b>	<b>7.2400e-003</b>	<b>0.3361</b>	<b>3.7400e-003</b>	<b>0.3398</b>	<b>0.0902</b>	<b>3.5100e-003</b>	<b>0.0937</b>						<b>698.7814</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.2521	1.9877	2.3062	4.7300e-003		0.0867	0.0867		0.0837	0.0837							399.9523
<b>Total</b>	<b>0.2521</b>	<b>1.9877</b>	<b>2.3062</b>	<b>4.7300e-003</b>		<b>0.0867</b>	<b>0.0867</b>		<b>0.0837</b>	<b>0.0837</b>							<b>399.9523</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0413	1.7393	0.4482	5.0900e-003	0.0972	1.9100e-003	0.0991	0.0267	1.8300e-003	0.0285						504.4824
Worker	0.0783	0.0544	0.6505	2.1500e-003	0.2389	1.8300e-003	0.2407	0.0635	1.6800e-003	0.0651						194.2990
<b>Total</b>	<b>0.1197</b>	<b>1.7937</b>	<b>1.0987</b>	<b>7.2400e-003</b>	<b>0.3361</b>	<b>3.7400e-003</b>	<b>0.3398</b>	<b>0.0902</b>	<b>3.5100e-003</b>	<b>0.0937</b>						<b>698.7814</b>

**3.10 Parking Garage-Interior - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1076	0.8586	1.0820	1.8200e-003		0.0372	0.0372		0.0358	0.0358						155.2264
<b>Total</b>	<b>0.1076</b>	<b>0.8586</b>	<b>1.0820</b>	<b>1.8200e-003</b>		<b>0.0372</b>	<b>0.0372</b>		<b>0.0358</b>	<b>0.0358</b>						<b>155.2264</b>

**Unmitigated Construction Off-Site**

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	7.2800e-003	0.2435	0.0760	8.4000e-004	0.0217	2.8000e-004	0.0220	6.2700e-003	2.7000e-004	6.5400e-003							81.4397
Worker	0.0248	0.0172	0.2059	6.8000e-004	0.0756	5.8000e-004	0.0762	0.0201	5.3000e-004	0.0206							61.4983
<b>Total</b>	<b>0.0321</b>	<b>0.2607</b>	<b>0.2818</b>	<b>1.5200e-003</b>	<b>0.0973</b>	<b>8.6000e-004</b>	<b>0.0982</b>	<b>0.0264</b>	<b>8.0000e-004</b>	<b>0.0272</b>							<b>142.9380</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.1076	0.8586	1.0820	1.8200e-003		0.0372	0.0372		0.0358	0.0358							155.2262
<b>Total</b>	<b>0.1076</b>	<b>0.8586</b>	<b>1.0820</b>	<b>1.8200e-003</b>		<b>0.0372</b>	<b>0.0372</b>		<b>0.0358</b>	<b>0.0358</b>							<b>155.2262</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	7.2800e-003	0.2435	0.0760	8.4000e-004	0.0217	2.8000e-004	0.0220	6.2700e-003	2.7000e-004	6.5400e-003							81.4397
Worker	0.0248	0.0172	0.2059	6.8000e-004	0.0756	5.8000e-004	0.0762	0.0201	5.3000e-004	0.0206							61.4983
<b>Total</b>	<b>0.0321</b>	<b>0.2607</b>	<b>0.2818</b>	<b>1.5200e-003</b>	<b>0.0973</b>	<b>8.6000e-004</b>	<b>0.0982</b>	<b>0.0264</b>	<b>8.0000e-004</b>	<b>0.0272</b>							<b>142.9380</b>

**3.11 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	1.4485					0.0000	0.0000		0.0000	0.0000							0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
<b>Total</b>	<b>1.4485</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>							<b>0.0000</b>

**Unmitigated Construction Off-Site**

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

Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4485					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>1.4485</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**3.11 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1603					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>2.1603</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1603					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>2.1603</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**3.11 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	tons/yr										MT/yr					
Archit. Coating	0.3476					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>	<b>0.3476</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						<b>0.0000</b>

**Unmitigated Construction Off-Site**













**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	1.3900e-003	0.0466	0.0145	1.6000e-004	4.1600e-003	5.0000e-005	4.2100e-003	1.2000e-003	5.0000e-005	1.2500e-003						15.5798
Worker	0.0316	0.0220	0.2626	8.7000e-004	0.0964	7.4000e-004	0.0972	0.0256	6.8000e-004	0.0263						78.4326
<b>Total</b>	<b>0.0330</b>	<b>0.0685</b>	<b>0.2771</b>	<b>1.0300e-003</b>	<b>0.1006</b>	<b>7.9000e-004</b>	<b>0.1014</b>	<b>0.0268</b>	<b>7.3000e-004</b>	<b>0.0275</b>						<b>94.0124</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0412	0.3285	0.4140	7.0000e-004		0.0142	0.0142		0.0137	0.0137						59.3909
<b>Total</b>	<b>0.0412</b>	<b>0.3285</b>	<b>0.4140</b>	<b>7.0000e-004</b>		<b>0.0142</b>	<b>0.0142</b>		<b>0.0137</b>	<b>0.0137</b>						<b>59.3909</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	1.3900e-003	0.0466	0.0145	1.6000e-004	4.1600e-003	5.0000e-005	4.2100e-003	1.2000e-003	5.0000e-005	1.2500e-003						15.5798
Worker	0.0316	0.0220	0.2626	8.7000e-004	0.0964	7.4000e-004	0.0972	0.0256	6.8000e-004	0.0263						78.4326
<b>Total</b>	<b>0.0330</b>	<b>0.0685</b>	<b>0.2771</b>	<b>1.0300e-003</b>	<b>0.1006</b>	<b>7.9000e-004</b>	<b>0.1014</b>	<b>0.0268</b>	<b>7.3000e-004</b>	<b>0.0275</b>						<b>94.0124</b>

**3.14 New Buildings-Interior - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1654	1.3212	1.7610	2.9800e-003		0.0530	0.0530		0.0509	0.0509						253.7524

Total	0.1654	1.3212	1.7610	2.9800e-003		0.0530	0.0530		0.0509	0.0509						253.7524
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	5.8000e-003	0.1973	0.0605	6.8000e-004	0.0178	2.3000e-004	0.0180	5.1300e-003	2.2000e-004	5.3400e-003						66.2046
Worker	0.1285	0.0859	1.0412	3.5600e-003	0.4120	3.0800e-003	0.4151	0.1094	2.8400e-003	0.1123						322.1348
<b>Total</b>	<b>0.1343</b>	<b>0.2832</b>	<b>1.1017</b>	<b>4.2400e-003</b>	<b>0.4298</b>	<b>3.3100e-003</b>	<b>0.4331</b>	<b>0.1146</b>	<b>3.0600e-003</b>	<b>0.1176</b>						<b>388.3394</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1654	1.3212	1.7610	2.9800e-003		0.0530	0.0530		0.0509	0.0509						253.7521
<b>Total</b>	<b>0.1654</b>	<b>1.3212</b>	<b>1.7610</b>	<b>2.9800e-003</b>		<b>0.0530</b>	<b>0.0530</b>		<b>0.0509</b>	<b>0.0509</b>						<b>253.7521</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	5.8000e-003	0.1973	0.0605	6.8000e-004	0.0178	2.3000e-004	0.0180	5.1300e-003	2.2000e-004	5.3400e-003						66.2046
Worker	0.1285	0.0859	1.0412	3.5600e-003	0.4120	3.0800e-003	0.4151	0.1094	2.8400e-003	0.1123						322.1348
<b>Total</b>	<b>0.1343</b>	<b>0.2832</b>	<b>1.1017</b>	<b>4.2400e-003</b>	<b>0.4298</b>	<b>3.3100e-003</b>	<b>0.4331</b>	<b>0.1146</b>	<b>3.0600e-003</b>	<b>0.1176</b>						<b>388.3394</b>

**3.15 New Buildings-Paving/Landscape - 2025**

**Unmitigated Construction On-Site**

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

Off-Road	9.5800e-003	0.0820	0.1332	2.2000e-004		3.5800e-003	3.5800e-003		3.4100e-003	3.4100e-003							18.6474
Paving	2.4800e-003					0.0000	0.0000		0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0121</b>	<b>0.0820</b>	<b>0.1332</b>	<b>2.2000e-004</b>		<b>3.5800e-003</b>	<b>3.5800e-003</b>		<b>3.4100e-003</b>	<b>3.4100e-003</b>							<b>18.6474</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	1.7300e-003	0.0588	0.0180	2.0000e-004	5.2900e-003	7.0000e-005	5.3600e-003	1.5300e-003	6.0000e-005	1.5900e-003							19.7205
Worker	1.9100e-003	1.2800e-003	0.0155	5.0000e-005	6.1400e-003	5.0000e-005	6.1800e-003	1.6300e-003	4.0000e-005	1.6700e-003							4.7978
<b>Total</b>	<b>3.6400e-003</b>	<b>0.0601</b>	<b>0.0335</b>	<b>2.5000e-004</b>	<b>0.0114</b>	<b>1.2000e-004</b>	<b>0.0115</b>	<b>3.1600e-003</b>	<b>1.0000e-004</b>	<b>3.2600e-003</b>							<b>24.5183</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	9.5800e-003	0.0820	0.1332	2.2000e-004		3.5800e-003	3.5800e-003		3.4100e-003	3.4100e-003							18.6473
Paving	2.4800e-003					0.0000	0.0000		0.0000	0.0000							0.0000
<b>Total</b>	<b>0.0121</b>	<b>0.0820</b>	<b>0.1332</b>	<b>2.2000e-004</b>		<b>3.5800e-003</b>	<b>3.5800e-003</b>		<b>3.4100e-003</b>	<b>3.4100e-003</b>							<b>18.6473</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							0.0000
Vendor	1.7300e-003	0.0588	0.0180	2.0000e-004	5.2900e-003	7.0000e-005	5.3600e-003	1.5300e-003	6.0000e-005	1.5900e-003							19.7205
Worker	1.9100e-003	1.2800e-003	0.0155	5.0000e-005	6.1400e-003	5.0000e-005	6.1800e-003	1.6300e-003	4.0000e-005	1.6700e-003							4.7978
<b>Total</b>	<b>3.6400e-003</b>	<b>0.0601</b>	<b>0.0335</b>	<b>2.5000e-004</b>	<b>0.0114</b>	<b>1.2000e-004</b>	<b>0.0115</b>	<b>3.1600e-003</b>	<b>1.0000e-004</b>	<b>3.2600e-003</b>							<b>24.5183</b>

**3.16 Existing Buildings-Paving/Landscape - 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
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8th and Alameda Redevelopment Existing Operation - Los Angeles-South Coast County, Annual

**8th and Alameda Redevelopment Existing Operation**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	582.40	1000sqft	13.37	582,400.00	0
Parking Lot	724.00	Space	6.52	289,600.00	0
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2021
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	739	<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 - Consistency with SB100 for LADWP.

Land Use -

Vehicle Trips - LADOT VMT Calculator

Energy Use -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CO2IntensityFactor	1227.89	739
tblVehicleTrips	CC_TL	8.40	7.63
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	0.00	555.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.00	286.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	0.00	2,933.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	2.3988	1.5000e-004	0.0168	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
Energy	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430							3,161.1639
Mobile	0.6772	3.4005	8.7268	0.0294	2.3350	0.0253	2.3603	0.6259	0.0236	0.6495							2,714.7465
Waste						0.0000	0.0000		0.0000	0.0000							363.1854
Water						0.0000	0.0000		0.0000	0.0000							773.1581
<b>Total</b>	<b>3.1381</b>	<b>3.9659</b>	<b>9.2184</b>	<b>0.0328</b>	<b>2.3350</b>	<b>0.0683</b>	<b>2.4033</b>	<b>0.6259</b>	<b>0.0666</b>	<b>0.6925</b>							<b>7,012.2885</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	2.3988	1.5000e-004	0.0168	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
Energy	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430							3,161.1639
Mobile	0.6772	3.4005	8.7268	0.0294	2.3350	0.0253	2.3603	0.6259	0.0236	0.6495							2,714.7465
Waste						0.0000	0.0000		0.0000	0.0000							85.7118
Water						0.0000	0.0000		0.0000	0.0000							773.1581
<b>Total</b>	<b>3.1381</b>	<b>3.9659</b>	<b>9.2184</b>	<b>0.0328</b>	<b>2.3350</b>	<b>0.0683</b>	<b>2.4033</b>	<b>0.6259</b>	<b>0.0666</b>	<b>0.6925</b>							<b>6,734.8148</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.6772	3.4005	8.7268	0.0294	2.3350	0.0253	2.3603	0.6259	0.0236	0.6495							2,714.7465
Unmitigated	0.6772	3.4005	8.7268	0.0294	2.3350	0.0253	2.3603	0.6259	0.0236	0.6495							2,714.7465

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
General Light Industry	0.00	0.00	0.00		
User Defined Industrial	2,933.00	555.00	286.00	6,152,161	6,152,161
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>2,933.00</b>	<b>555.00</b>	<b>286.00</b>	<b>6,152,161</b>	<b>6,152,161</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
User Defined Industrial	0.00	7.63	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
User Defined Industrial	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						2,542.1412
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						2,542.1412
NaturalGas Mitigated	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430						619.0226
NaturalGas Unmitigated	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430						619.0226

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.15315e+007	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430						619.0226
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0622</b>	<b>0.5653</b>	<b>0.4748</b>	<b>3.3900e-003</b>		<b>0.0430</b>	<b>0.0430</b>		<b>0.0430</b>	<b>0.0430</b>						<b>619.0226</b>

##### Mitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					

General Light Industry	1.15315e+007	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430						619.0226
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0622</b>	<b>0.5653</b>	<b>0.4748</b>	<b>3.3900e-003</b>		<b>0.0430</b>	<b>0.0430</b>		<b>0.0430</b>	<b>0.0430</b>						<b>619.0226</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	7.3033e+006				2,456.4245
Parking Lot	254848				85.7168
User Defined Industrial	0				0.0000
<b>Total</b>					<b>2,542.1412</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	7.3033e+006				2,456.4245
Parking Lot	254848				85.7168
User Defined Industrial	0				0.0000
<b>Total</b>					<b>2,542.1412</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3988	1.5000e-004	0.0168	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0346
Unmitigated	2.3988	1.5000e-004	0.0168	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0346

#### 6.2 Area by SubCategory

##### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										M1/yr						
Architectural Coating	0.2740					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	2.1232					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	1.5600e-003	1.5000e-004	0.0168	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
<b>Total</b>	<b>2.3988</b>	<b>1.5000e-004</b>	<b>0.0168</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>							<b>0.0346</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										M1/yr						
Architectural Coating	0.2740					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	2.1232					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	1.5600e-003	1.5000e-004	0.0168	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
<b>Total</b>	<b>2.3988</b>	<b>1.5000e-004</b>	<b>0.0168</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>							<b>0.0346</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				773.1581
Unmitigated				773.1581

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	134.68 / 0				773.1581
Parking Lot	0 / 0				0.0000
User Defined Industrial	0 / 0				0.0000

Total				773.1581
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**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	134.68 / 0				773.1581
Parking Lot	0 / 0				0.0000
User Defined Industrial	0 / 0				0.0000
<b>Total</b>					<b>773.1581</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				85.7118
Unmitigated				363.1854

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	722.18				363.1854
Parking Lot	0				0.0000
User Defined Industrial	0				0.0000
<b>Total</b>					<b>363.1854</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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Land Use	tons	M/yr		
General Light Industry	170.434			85.7118
Parking Lot	0			0.0000
User Defined Industrial	0			0.0000
<b>Total</b>				<b>85.7118</b>

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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8th and Alameda Redevelopment No Project Operation - Los Angeles-South Coast County, Annual

**8th and Alameda Redevelopment Existing Use (Buildout Year) Operation**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	582.40	1000sqft	13.37	582,400.00	0
Parking Lot	724.00	Space	6.52	289,600.00	0
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2026
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	585	<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 - Consistency with SB100 for LADWP.

Land Use -

Vehicle Trips - LADOT VMT Calculator

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	0.88	0.88
tblProjectCharacteristics	CO2IntensityFactor	1227.89	585
tblVehicleTrips	CC_TL	8.40	7.63
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	0.00	555.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.00	286.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	0.00	2,933.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	2.3987	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
Energy	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430							2,632.8944
Mobile	0.4920	2.3694	6.2055	0.0255	2.3343	0.0193	2.3536	0.6255	0.0179	0.6435							2,368.0582
Waste						0.0000	0.0000		0.0000	0.0000							363.1854
Water						0.0000	0.0000		0.0000	0.0000							650.6587
<b>Total</b>	<b>2.9529</b>	<b>2.9348</b>	<b>6.6970</b>	<b>0.0289</b>	<b>2.3343</b>	<b>0.0624</b>	<b>2.3967</b>	<b>0.6255</b>	<b>0.0610</b>	<b>0.6865</b>							<b>6,014.8313</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	2.3987	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
Energy	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430							2,632.8944
Mobile	0.4920	2.3694	6.2055	0.0255	2.3343	0.0193	2.3536	0.6255	0.0179	0.6435							2,368.0582
Waste						0.0000	0.0000		0.0000	0.0000							85.7118
Water						0.0000	0.0000		0.0000	0.0000							650.6587
<b>Total</b>	<b>2.9529</b>	<b>2.9348</b>	<b>6.6970</b>	<b>0.0289</b>	<b>2.3343</b>	<b>0.0624</b>	<b>2.3967</b>	<b>0.6255</b>	<b>0.0610</b>	<b>0.6865</b>							<b>5,737.3576</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.4920	2.3694	6.2055	0.0255	2.3343	0.0193	2.3536	0.6255	0.0179	0.6435							2,368.0582
Unmitigated	0.4920	2.3694	6.2055	0.0255	2.3343	0.0193	2.3536	0.6255	0.0179	0.6435							2,368.0582

**4.2 Trip Summary Information**

Average Daily Trip Rate	Unmitigated	Mitigated
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Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
User Defined Industrial	2,933.00	555.00	286.00	6,152,161	6,152,161
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>2,933.00</b>	<b>555.00</b>	<b>286.00</b>	<b>6,152,161</b>	<b>6,152,161</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
User Defined Industrial	0.00	7.63	0.00	0.00	100.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
User Defined Industrial	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Parking Lot	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

### 5.0 Energy Detail

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						2,013.8718
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						2,013.8718
NaturalGas Mitigated	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430						619.0226
NaturalGas Unmitigated	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430						619.0226

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.15315e+007	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430						619.0226
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0622</b>	<b>0.5653</b>	<b>0.4748</b>	<b>3.3900e-003</b>		<b>0.0430</b>	<b>0.0430</b>		<b>0.0430</b>	<b>0.0430</b>						<b>619.0226</b>

#### Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
General Light Industry	1.15315e+007	0.0622	0.5653	0.4748	3.3900e-003		0.0430	0.0430		0.0430	0.0430							619.0226
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
<b>Total</b>		<b>0.0622</b>	<b>0.5653</b>	<b>0.4748</b>	<b>3.3900e-003</b>		<b>0.0430</b>	<b>0.0430</b>		<b>0.0430</b>	<b>0.0430</b>							<b>619.0226</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	7.3033e+006				1,946.2657
Parking Lot	253690				67.6061
User Defined Industrial	0				0.0000
<b>Total</b>					<b>2,013.8718</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	7.3033e+006				1,946.2657
Parking Lot	253690				67.6061
User Defined Industrial	0				0.0000
<b>Total</b>					<b>2,013.8718</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3987	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005						0.0346

Unmitigated	2.3987	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
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## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.2740					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	2.1232					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	1.5300e-003	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
<b>Total</b>	<b>2.3987</b>	<b>1.5000e-004</b>	<b>0.0166</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>							<b>0.0346</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.2740					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	2.1232					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	1.5300e-003	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005							0.0346
<b>Total</b>	<b>2.3987</b>	<b>1.5000e-004</b>	<b>0.0166</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>							<b>0.0346</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				650.6587
Unmitigated				650.6587

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
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Land Use	Mgal	MT/yr		
General Light Industry	134.68 / 0			650.6587
Parking Lot	0 / 0			0.0000
User Defined Industrial	0 / 0			0.0000
<b>Total</b>				<b>650.6587</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	134.68 / 0				650.6587
Parking Lot	0 / 0				0.0000
User Defined Industrial	0 / 0				0.0000
<b>Total</b>					<b>650.6587</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				85.7118
Unmitigated				363.1854

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	722.18				363.1854
Parking Lot	0				0.0000
User Defined Industrial	0				0.0000
<b>Total</b>					<b>363.1854</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	170.434				85.7118
Parking Lot	0				0.0000
User Defined Industrial	0				0.0000
<b>Total</b>					<b>85.7118</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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8th and Alameda Redevelopment Project Operation - Los Angeles-South Coast County, Annual

**8th and Alameda Redevelopment Project Operation**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	395.53	1000sqft	9.08	395,530.00	0
General Light Industry	413.66	1000sqft	9.50	413,660.00	0
Parking Lot	210.00	Space	1.89	84,000.00	0
Unenclosed Parking with Elevator	1,574.00	Space	14.17	629,600.00	0
High Turnover (Sit Down Restaurant)	7.50	1000sqft	0.17	7,500.00	0
Health Club	15.50	1000sqft	0.36	15,500.00	0
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2026
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	585	<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 - Consistency with SB100 for LADWP.

Land Use - The land uses include existing building renovation of approximately 582,400 sf.

Vehicle Trips - LADOT VMT Calculator

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CO2IntensityFactor	1227.89	585
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.25
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	8.40	7.91
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00

tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	0.00	736.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.00	338.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	0.00	3,511.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M1/yr					
Area	3.4520	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.0692
Energy	0.0734	0.6675	0.5607	4.0000e-003		0.0507	0.0507		0.0507	0.0507						3,791.1676
Mobile	0.6004	2.8955	7.6776	0.0317	2.9074	0.0240	2.9314	0.7791	0.0223	0.8014						2,942.2152
Stationary	0.0148	0.0413	0.0377	7.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003						6.8784
Waste						0.0000	0.0000		0.0000	0.0000						532.2609
Water						0.0000	0.0000		0.0000	0.0000						946.8546
<b>Total</b>	<b>4.1405</b>	<b>3.6046</b>	<b>8.3093</b>	<b>0.0358</b>	<b>2.9074</b>	<b>0.0770</b>	<b>2.9844</b>	<b>0.7791</b>	<b>0.0753</b>	<b>0.8544</b>						<b>8,219.4458</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M1/yr					
Area	3.4520	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.0692
Energy	0.0680	0.6177	0.5189	3.7100e-003		0.0470	0.0470		0.0470	0.0470						3,393.6002
Mobile	0.6004	2.8955	7.6776	0.0317	2.9074	0.0240	2.9314	0.7791	0.0223	0.8014						2,942.2152
Stationary	0.0148	0.0413	0.0377	7.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003						6.8784
Waste						0.0000	0.0000		0.0000	0.0000						125.6136
Water						0.0000	0.0000		0.0000	0.0000						757.4837
<b>Total</b>	<b>4.1351</b>	<b>3.5548</b>	<b>8.2675</b>	<b>0.0355</b>	<b>2.9074</b>	<b>0.0732</b>	<b>2.9806</b>	<b>0.7791</b>	<b>0.0715</b>	<b>0.8506</b>						<b>7,225.8602</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.6004	2.8955	7.6776	0.0317	2.9074	0.0240	2.9314	0.7791	0.0223	0.8014							2,942.2152
Unmitigated	0.6004	2.8955	7.6776	0.0317	2.9074	0.0240	2.9314	0.7791	0.0223	0.8014							2,942.2152

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
User Defined Commercial	3,511.00	736.00	338.00	7,662,480	7,662,480
Total	3,511.00	736.00	338.00	7,662,480	7,662,480

### 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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
User Defined Commercial	0.00	7.91	0.00	0.00	100.00	0.00	100	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Parking Lot	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unenclosed Parking with Elevator	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Health Club	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
High Turnover (Sit Down Restaurant)	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
User Defined Commercial	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M1/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						2,717.1345
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						3,060.2501
NaturalGas Mitigated	0.0680	0.6177	0.5189	3.7100e-003		0.0470	0.0470		0.0470	0.0470						676.4657
NaturalGas Unmitigated	0.0734	0.6675	0.5607	4.0000e-003		0.0507	0.0507		0.0507	0.0507						730.9175

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										M1/yr					
General Light Industry	7.48725e+006	0.0404	0.3670	0.3083	2.2000e-003		0.0279	0.0279		0.0279	0.0279						401.9223
General Office Building	4.11747e+006	0.0222	0.2018	0.1695	1.2100e-003		0.0153	0.0153		0.0153	0.0153						221.0294
Health Club	280550	1.5100e-003	0.0138	0.0116	8.0000e-005		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003						15.0602
High Turnover (Sit Down Restaurant)	1.7307e+006	9.3300e-003	0.0848	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003						92.9056
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0734</b>	<b>0.6675</b>	<b>0.5607</b>	<b>4.0000e-003</b>		<b>0.0507</b>	<b>0.0507</b>		<b>0.0507</b>	<b>0.0507</b>						<b>730.9175</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										M1/yr					
General Light Industry	6.9226e+006	0.0373	0.3393	0.2851	2.0400e-003		0.0258	0.0258		0.0258	0.0258						371.6116
General Office Building	3.72115e+006	0.0201	0.1824	0.1532	1.0900e-003		0.0139	0.0139		0.0139	0.0139						199.7546
Health Club	259393	1.4000e-003	0.0127	0.0107	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004						13.9244
High Turnover (Sit Down Restaurant)	1.69847e+006	9.1600e-003	0.0833	0.0699	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003						91.1752
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0680</b>	<b>0.6177</b>	<b>0.5189</b>	<b>3.7100e-003</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0470</b>	<b>0.0470</b>						<b>676.4657</b>

## 5.3 Energy by Land Use - Electricity

### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	M1/yr			
General Light Industry	4.59163e+006				1,223.6289
General Office Building	5.13793e+006				1,369.2155
Health Club	172050				45.8499
High Turnover (Sit Down Restaurant)	331050				88.2220
Parking Lot	29400				7.8349
Unenclosed Parking with Elevator	1.22142e+006				325.4990
User Defined Commercial	0				0.0000
<b>Total</b>					<b>3,060.2501</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	M1/yr			
General Light Industry	4.17797e+006				1,113.3921
General Office Building	4.5832e+006				1,221.3845
Health Club	156550				41.7192
High Turnover (Sit Down Restaurant)	310211				82.6686
Parking Lot	22050				5.8761
Unenclosed Parking with Elevator	945974				252.0940
User Defined Commercial	0				0.0000
<b>Total</b>					<b>2,717.1345</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M1/yr					
Mitigated	3.4520	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.0692
Unmitigated	3.4520	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.0692

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3956					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.0533					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	3.0700e-003	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.0692
<b>Total</b>	<b>3.4520</b>	<b>3.0000e-004</b>	<b>0.0333</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>						<b>0.0692</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3956					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.0533					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	3.0700e-003	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.0692
<b>Total</b>	<b>3.4520</b>	<b>3.0000e-004</b>	<b>0.0333</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>						<b>0.0692</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				757.4837
Unmitigated				946.8546

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	95.6589 / 0				462.1420

General Office Building	70.299 / 43.0865			467.1919
Health Club	0.916719 / 0.56186			6.0923
High Turnover (Sit Down Restaurant)	2.2765 / 0.145309			11.4283
Parking Lot	0 / 0			0.0000
Unenclosed Parking with Elevator	0 / 0			0.0000
User Defined Commercial	0 / 0			0.0000
<b>Total</b>				<b>946.8546</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	76.5271 / 0				369.7136
General Office Building	56.2392 / 34.4692				373.7535
Health Club	0.733375 / 0.449488				4.8739
High Turnover (Sit Down Restaurant)	1.8212 / 0.116247				9.1427
Parking Lot	0 / 0				0.0000
Unenclosed Parking with Elevator	0 / 0				0.0000
User Defined Commercial	0 / 0				0.0000
<b>Total</b>					<b>757.4837</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				125.6136
Unmitigated				532.2609

**8.2 Waste by Land Use**

Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
----------------	-----------	-----	-----	------

Land Use	tons	M1/yr		
General Light Industry	512.94			257.9583
General Office Building	367.84			184.9873
Health Club	88.35			44.4314
High Turnover (Sit Down Restaurant)	89.25			44.8840
Parking Lot	0			0.0000
Unenclosed Parking with Elevator	0			0.0000
User Defined Commercial	0			0.0000
<b>Total</b>				<b>532.2609</b>

**Mitigated**

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e M1/yr
General Light Industry	121.054				60.8782
General Office Building	86.8102				43.6570
Health Club	20.8506				10.4858
High Turnover (Sit Down Restaurant)	21.063				10.5926
Parking Lot	0				0.0000
Unenclosed Parking with Elevator	0				0.0000
User Defined Commercial	0				0.0000
<b>Total</b>					<b>125.6136</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0.25	12	500	0.73	Diesel

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	tons/yr										MT/yr						
Emergency Generator - Diesel (200 - 200 HP)	0.0148	0.0413	0.0377	7.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003							6.8784
<b>Total</b>	<b>0.0148</b>	<b>0.0413</b>	<b>0.0377</b>	<b>7.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>							<b>6.8784</b>

## 11.0 Vegetation

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8th and Alameda Redevelopment Project Operation No MXD - Los Angeles-South Coast County, Annual

**8th and Alameda Redevelopment Project Operation No MXD  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	395.53	1000sqft	9.08	395,530.00	0
User Defined Commercial	1.00	User Defined Unit	0.00	0.00	0
General Light Industry	413.66	1000sqft	9.50	413,660.00	0
Parking Lot	210.00	Space	1.89	84,000.00	0
Unenclosed Parking with Elevator	1,574.00	Space	14.17	629,600.00	0
Health Club	15.50	1000sqft	0.36	15,500.00	0
High Turnover (Sit Down Restaurant)	7.50	1000sqft	0.17	7,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	12			<b>Operational Year</b>	2026
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	585	<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 - Consistency with SB100 for LADWP.

Land Use - The land uses include existing building renovation of approximately 582,400 sf.

Vehicle Trips - LADOT VMT Calculator

Energy Use -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CO2IntensityFactor	1227.89	585
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.25
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	8.40	7.84
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.46	0.00

tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	0.00	969.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.00	444.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	0.00	4,620.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	3.4520	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							0.0692
Energy	0.0734	0.6675	0.5607	4.0000e-003		0.0507	0.0507		0.0507	0.0507							3,791.1676
Mobile	0.7870	3.7940	10.0295	0.0414	3.7918	0.0313	3.8231	1.0161	0.0291	1.0452							3,839.5382
Stationary	0.0148	0.0413	0.0377	7.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003							6.8784
Waste						0.0000	0.0000		0.0000	0.0000							532.2609
Water						0.0000	0.0000		0.0000	0.0000							946.8546
<b>Total</b>	<b>4.3271</b>	<b>4.5030</b>	<b>10.6612</b>	<b>0.0455</b>	<b>3.7918</b>	<b>0.0843</b>	<b>3.8761</b>	<b>1.0161</b>	<b>0.0821</b>	<b>1.0982</b>							<b>9,116.7688</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	3.4520	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							0.0692
Energy	0.0680	0.6177	0.5189	3.7100e-003		0.0470	0.0470		0.0470	0.0470							3,393.6002
Mobile	0.7870	3.7940	10.0295	0.0414	3.7918	0.0313	3.8231	1.0161	0.0291	1.0452							3,839.5382
Stationary	0.0148	0.0413	0.0377	7.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003							6.8784
Waste						0.0000	0.0000		0.0000	0.0000							125.6136
Water						0.0000	0.0000		0.0000	0.0000							757.4837
<b>Total</b>	<b>4.3216</b>	<b>4.4533</b>	<b>10.6194</b>	<b>0.0452</b>	<b>3.7918</b>	<b>0.0805</b>	<b>3.8724</b>	<b>1.0161</b>	<b>0.0783</b>	<b>1.0944</b>							<b>8,123.1832</b>



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.7870	3.7940	10.0295	0.0414	3.7918	0.0313	3.8231	1.0161	0.0291	1.0452							3,839,538 2
Unmitigated	0.7870	3.7940	10.0295	0.0414	3.7918	0.0313	3.8231	1.0161	0.0291	1.0452							3,839,538 2

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	4,620.00	969.00	444.00	9,993,460	9,993,460
Total	4,620.00	969.00	444.00	9,993,460	9,993,460

### 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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Commercial	0.00	7.84	0.00	0.00	100.00	0.00	100	0	0

### 4.4 Fleet Mix

Land Use	LDA	LD11	LD12	MDV	LHD1	LHD2	MHD	HRD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
General Office Building	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Health Club	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
High Turnover (Sit Down Restaurant)	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Parking Lot	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
Unenclosed Parking with Elevator	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834
User Defined Commercial	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						2,717.1345
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						3,060.2501
Natural Gas Mitigated	0.0680	0.6177	0.5189	3.7100e-003		0.0470	0.0470		0.0470	0.0470						676.4657
Natural Gas Unmitigated	0.0734	0.6675	0.5607	4.0000e-003		0.0507	0.0507		0.0507	0.0507						730.9175

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

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	7.48725e+006	0.0404	0.3670	0.3083	2.2000e-003		0.0279	0.0279		0.0279	0.0279						401.9223
General Office Building	4.11747e+006	0.0222	0.2018	0.1695	1.2100e-003		0.0153	0.0153		0.0153	0.0153						221.0294
Health Club	280550	1.5100e-003	0.0138	0.0116	8.0000e-005		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003						15.0602
High Turnover (Sit Down Restaurant)	1.7307e+006	9.3300e-003	0.0848	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003						92.9056
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0734</b>	<b>0.6675</b>	<b>0.5607</b>	<b>4.0000e-003</b>		<b>0.0507</b>	<b>0.0507</b>		<b>0.0507</b>	<b>0.0507</b>						<b>730.9175</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	6.9226e+006	0.0373	0.3393	0.2851	2.0400e-003		0.0258	0.0258		0.0258	0.0258						371.6116
General Office Building	3.72115e+006	0.0201	0.1824	0.1532	1.0900e-003		0.0139	0.0139		0.0139	0.0139						199.7546
Health Club	259393	1.4000e-003	0.0127	0.0107	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004						13.9244
High Turnover (Sit Down Restaurant)	1.69847e+006	9.1600e-003	0.0833	0.0699	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003						91.1752
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

Total		0.0680	0.6177	0.5189	3.7100e-003		0.0470	0.0470		0.0470	0.0470						676.4657
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### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	4.59163e+006				1,223.6289
General Office Building	5.13793e+006				1,369.2155
Health Club	172050				45.8499
High Turnover (Sit Down Restaurant)	331050				88.2220
Parking Lot	29400				7.8349
Unenclosed Parking with Elevator	1.22142e+006				325.4990
User Defined Commercial	0				0.0000
<b>Total</b>					<b>3,060.2501</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	4.17797e+006				1,113.3921
General Office Building	4.5832e+006				1,221.3845
Health Club	156550				41.7192
High Turnover (Sit Down Restaurant)	310211				82.6686
Parking Lot	22050				5.8761
Unenclosed Parking with Elevator	945974				252.0940
User Defined Commercial	0				0.0000
<b>Total</b>					<b>2,717.1345</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

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

Mitigated	3.4520	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.0692
Unmitigated	3.4520	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.0692

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.3956					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	3.0533					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	3.0700e-003	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							0.0692
<b>Total</b>	<b>3.4520</b>	<b>3.0000e-004</b>	<b>0.0333</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>							<b>0.0692</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.3956					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	3.0533					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	3.0700e-003	3.0000e-004	0.0333	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004							0.0692
<b>Total</b>	<b>3.4520</b>	<b>3.0000e-004</b>	<b>0.0333</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>							<b>0.0692</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				757.4837
Unmitigated				946.8546

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	95.6589 / 0				462.1420
General Office Building	70.299 / 43.0865				467.1919
Health Club	0.916719 / 0.56186				6.0923
High Turnover (Sit Down Restaurant)	2.2765 / 0.145309				11.4283
Parking Lot	0 / 0				0.0000
Unenclosed Parking with Elevator	0 / 0				0.0000
User Defined Commercial	0 / 0				0.0000
<b>Total</b>					<b>946.8546</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	76.5271 / 0				369.7136
General Office Building	56.2392 / 34.4692				373.7535
Health Club	0.733375 / 0.449488				4.8739
High Turnover (Sit Down Restaurant)	1.8212 / 0.116247				9.1427
Parking Lot	0 / 0				0.0000
Unenclosed Parking with Elevator	0 / 0				0.0000
User Defined Commercial	0 / 0				0.0000
<b>Total</b>					<b>757.4837</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				125.6136
Unmitigated				532.2609

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	M1/yr			
General Light Industry	512.94				257.9583
General Office Building	367.84				184.9873
Health Club	88.35				44.4314
High Turnover (Sit Down Restaurant)	89.25				44.8840
Parking Lot	0				0.0000
Unenclosed Parking with Elevator	0				0.0000
User Defined Commercial	0				0.0000
<b>Total</b>					<b>532.2609</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	M1/yr			
General Light Industry	121.054				60.8782
General Office Building	86.8102				43.6570
Health Club	20.8506				10.4858
High Turnover (Sit Down Restaurant)	21.063				10.5926
Parking Lot	0				0.0000
Unenclosed Parking with Elevator	0				0.0000
User Defined Commercial	0				0.0000
<b>Total</b>					<b>125.6136</b>

## 9.0 Operational Offroad

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

### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0.25	12	500	0.73	Diesel

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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### 10.1 Stationary Sources

#### Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	tons/yr										MT/yr						
Emergency Generator - Diesel (999,999 HP)	0.0148	0.0413	0.0377	7.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003							6.8784
<b>Total</b>	<b>0.0148</b>	<b>0.0413</b>	<b>0.0377</b>	<b>7.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>							<b>6.8784</b>

### 11.0 Vegetation

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