

# **Revised Appendix C.2**



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Air Quality and Greenhouse Gas Worksheets

# **LACMA Building for the Permanent Collection Project**

Draft EIR

Appendix C-2  
AQ/GHG Worksheets  
August 2017 (Updated August 2018)

# Air Quality Worksheets

- Calculation of Localized Significance Thresholds (\*\*No Changes from Draft EIR\*\*)
- Summary of Emissions (\*\*Updated to Reflect Revised Construction Schedule\*\*)
- CalEEMod Output Files
  - Construction Regional (\*\*Updated to Reflect Revised Construction Schedule\*\*)
  - Construction Regional for Concrete Pour Day (\*\*Updated to Reflect Revised Construction Schedule\*\*)
  - Construction Localized (\*\*Updated to Reflect Revised Construction Schedule\*\*)
  - Existing (2016) (\*\*No Changes from Draft EIR\*\*)
  - Baseline(\*\*No Changes from Draft EIR\*\*)
  - Operation Buildout (\*\*No Changes from Draft EIR\*\*)

# **LACMA Building for the Permanent Collection Project**

Draft EIR

August 2018

- Calculation of Localized Significance Thresholds (\*\*No Changes from Draft EIR\*\*)

**Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data**

**Central LA NO2 Monitoring Data**

Stn #	City	Design Value	98th percentile, ppb		
		2013-2015	2013	2014	2015
87	CELA	65	63	69	62

Threshold (ppb) 100  
Allowable Increase (ppb) 35

Stn #	City	Design Value	Max Hourly, ppb			
		2006-2008	2007	2008	2009	2010
87	CELA	120	110	100	120	90

Threshold (ppb) 180  
Allowable Increase (ppb) 60

Max Hourly vs. 98th Percentile Ratio (Allowable Increase) **59%**

**Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area**

**LST Threshold (SRA 1, 25 meter receptor)**

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	Construction		Operations		
				PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	
1	74	43	680	5	3	2	2	1 Ogden Lot
2	108	63	1048	8	5	2	2	
5	161	95	1861	16	8	4	4	2 LACMA

# **LACMA Building for the Permanent Collection Project**

Draft EIR

August 2018

- Summary of Emissions (\*\*Updated to Reflect Revised Construction Schedule\*\*)

AQ Summary for Section

Summary of Project Emissions (Unmitigated)							Summary of Project Emissions (Mitigated)							
Construction							Construction							
Regional (Daily)							Regional (Daily)							
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
2019	19	283	118		1	37	14	2019	8	147	137	1	28	8
2020	33	323	234		1	118	33	2020	16	153	258	1	109	27
2021	29	115	161		0	25	10	2021	20	53	166	0	20	6
2022	27	106	156		0	24	9	2022	19	51	161	0	20	6
2023	4	48	36		0	13	6	2023	2	30	41	0	9	3
MAX	33	323	234		1	118	33	MAX	20	153	258	1	109	27
Threshold	75	100	550		150	150	55	Threshold	75	100	550	150	150	55
Difference	42	-223	316		149	32	22	Difference	55	-53	292	149	41	28
Localized (Daily)							Localized (Daily)							
2019		145	76			9	6		9	96		3	1	
2020		193	136			14	11		23	161		5	3	
2021		81	94			5	4		20	98		0	0	
2022		74	94			4	4		20	98		0	0	
2023		0	0			0	0		0	0		0	0	
MAX		193	136			14	11		23	161		5	3	
Threshold		95	1861			16	8		95	1861		16	8	
Difference		-98	1,725			2	-3		72	1,700		11	5	
Ogden Lot Max:		20	18			3	2	Ogden Lot Max:	4	23		2	1	
Threshold		43	680			5	3	Threshold	43	680		5	3	
Difference		23	662			2	1	Difference	39	657		3	2	
Summary of Project Emissions (Existing 2016) ***No Changes from DEIR***														
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>								
Area	9	0	0	0	0	0	0							
Energy	0	2	2	0	0	0	0							
Mobile	7	24	66	0	9	3								
Stationary	1	6	3	0	0	0								
	17	32	71	0	10	3								
Summary of Project Emissions (No Project 2023) ***No Changes from DEIR***														
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>								
Area	9	0	0	0	0	0	0							
Energy	0	2	2	0	0	0	0							
Mobile	4	16	34	0	8	2								
Stationary	1	6	3	0	0	0								
	14	24	39	0	9	3								
Summary of Project Emissions (Project 2023) ***No Changes from DEIR***														
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>								
Area	8	0	0	0	0	0	0							
Energy	0	2	1	0	0	0	0							
Mobile	5	19	41	0	10	3								
Stationary	0	1	3	0	0	0								
	14	21	45	0	10	3								
Net 2023 ***No Changes from DEIR***														
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>								
Area	0	0	0	0	0	0	0							
Energy	0	0	0	0	0	0	0							
Mobile	1	3	7	0	2	0								
Stationary	-1	-5	0	0	0	0								
Total	-1	-2	6	0	1	0								
Threshold	55	55	550	150	150	55								
Difference	56	57	544	150	149	55								
Onsite Total		-5	0		0	0								
Threshold		88	1698		4.0	2.0								
Difference		93	1698		4	2								

Existing (Daily Trip Generation)	size	Weekday		Weekend		
		daily	trip rate	daily	trip rate	
Museum	388	2326	6.00	3183	8.21	Includes a 15% transit reduction based on Traffic Study
Parking Lot (spaces) Spaulding	260	-	-	-	-	
Parking Lot (spaces) Ogden	.4 acres	-	-	-	-	
Baseline at Buildout (Daily Trip Generation)	size	daily	trip rate	daily	trip rate	
Museum	388	2737	7.06	3745	9.66	CalEEMod was used to calculate transit reduction based on proximity to new transit station
Parking Lot (spaces) Spaulding	260	-	-	-	-	
Parking Lot (spaces) Ogden	.4 acres	-	-	-	-	
Buildout (Daily Trip Generation)						
Museum	368	3405	9.25	4508	12.24	CalEEMod was used to calculate transit reduction based on proximity to new transit station
Parking Structure (unenclosed) Ogden	186	-	-	-	-	
Parking Structure (enclosed/elevator) Ogden	74	-	-	-	-	
<b>Project Increment</b>		668		763		

Existing: 3,075 weekday visitors (2,737 ADT) and 6,139 weekend visitors (3,745 ADT) with a 15% reduction for transit  
Project: Increase of 750 weekday visitors (668 ADT) and 1,250 weekend visitors (763 ADT).  
8.8 acres (5.7 LACMA East and 2.01 Spaulding Lot) and 0.4 acres Ogden Lot

Weekday 0.89  
Weekend 0.61

**Applicable VMT Reduction Measures selected in CalEEMod based on CAPCOA's Quantifying Greenhouse Gas Mitigation Measures, August, 2010**

LUT-3	Increase Diversity of Urban and Suburban Developments (Mixed Use) (Internally calculated in CalEEMod based on mix of land uses)	
LUT-4	Increase Destination Accessibility Distance to downtown/job center (Los Angeles)	5.5 miles
LUT-5	Increase Transit Accessibility (0.5-24.6% reduction) Distance to Metro Red Line Station at Hollywood Boulevard and Highland Avenue Note: Adjusted consistent with Traffic Study (15 percent reduction from transit for existing condition).	0.05 miles
LUT-8/SDT-1	Provide pedestrian Network Improvements	Yes
LUT-9	Improve Walkability Design Intersections within one square mile of the Project site	150 intersections
SDT-2	Provide Traffic Calming Measures Percent of Streets with sidewalks within one square mile of the Project site Percent of intersections with crosswalks within one square mile of the Project site	100 Percent 25 Percent



Parking Structure Electricity Calculation for Title 24 Sources (Ventilation) and Lighting  
Consistent with Section 120.6(c), Mandatory Requirements for Enclosed Parking Garages, the ventilation rate shall be at least 0.15 cfm/sq f when the garage is scheduled to be occupied.

**Parking Garage Ventilation**

Square Footage =	33300 ft2
Minimum Ventilation =	0.15 cfm/ft2
Flowrate =	4995 cfm
Number of Fans (5,000 cfm)	0.5 fans
Number of Fans	1 fans
Horsepower per Fan	5 hp
Horsepower to kW Conv.	0.746 kW per hp
Total kW =	3.73
Annual kW =	16,337 conservatively assumes operational 50 percent of the time even though it would only be operational when CO sensors read CO concentrations in excess of 25 ppm (2013 Building Energy Efficiency Stanards)
Usage Rate:	0.49 kWh/sq ft annual
	0.58 (correction for not double couting for mitigation measure)

**Parking Garage Lighting**

Square Footage =	33300 ft2
Allowed Lighting Power =	0.2 watts per ft2 (Table 140.6 (Complete Building Method Lighting Power Density Value) of the 2013 Building Energy Efficiency Standards)
Annual kW =	58,342 conservatively assumes maximum lighting power 24 hours per day)
Number of Fans (20,000 cfm)	1.75 kWh/sq ft annual
	2.05 (correction for not double couting for mitigation measure)

**Elevator (no change CalEEMod Default)** 0.19 kWh/sq ft annual

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August 2018

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LACMA Construction (Final EIR) - Los Angeles-South Coast County, Winter

**LACMA Construction (Final EIR Regional Daily)**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	270.00	1000sqft	6.20	270,000.00	0
Enclosed Parking with Elevator	74.00	Space	0.67	29,600.00	0
Unenclosed Parking with Elevator	186.00	Space	1.67	74,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024

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

- Project Characteristics -
- Land Use -
- Construction Phase - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation - Site Specific MM
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	35.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	41.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	20.00	80.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	230.00	154.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	230.00	132.00
tblConstructionPhase	NumDays	230.00	86.00
tblGrading	MaterialExported	0.00	127,600.00
tblGrading	MaterialExported	0.00	23,400.00
tblGrading	MaterialImported	0.00	37,400.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
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tblTripsAndVMT	HaulingTripNumber	0.00	11,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	12,180.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,200.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	190.00
tblTripsAndVMT	VendorTripNumber	0.00	294.00
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tblTripsAndVMT	VendorTripNumber	0.00	104.00
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tblTripsAndVMT	VendorTripNumber	61.00	18.00
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tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
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tblTripsAndVMT	WorkerTripNumber	83.00	200.00
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tblTripsAndVMT	WorkerTripNumber	75.00	1,400.00
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tblTripsAndVMT	WorkerTripNumber	157.00	1,600.00
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tblTripsAndVMT	WorkerTripNumber	157.00	125.00
tblTripsAndVMT	WorkerTripNumber	20.00	42.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	18.7721	282.9481	117.9537	0.6108	30.2129	7.0920	37.3049	7.1923	6.5858	13.7781	0.0000	64,190.3456	64,190.3456	8.0485	0.0000	64,391.5579
2020	32.5270	323.1127	233.5429	0.8625	111.5102	9.8249	117.8029	27.1471	9.2530	32.9885	0.0000	88,249.9729	88,249.9729	10.3152	0.0000	88,507.8539
2021	28.7637	115.1050	161.4245	0.3984	19.7665	4.7799	24.5464	5.2849	4.6305	9.9154	0.0000	39,280.4885	39,280.4885	3.4475	0.0000	39,366.6749
2022	27.3062	105.9246	155.7217	0.3916	19.7665	4.0916	23.8581	5.2849	3.9668	9.2517	0.0000	38,610.8129	38,610.8129	3.3373	0.0000	38,694.2439
2023	3.9172	48.4241	36.2918	0.2137	12.3990	0.9911	13.3902	5.0364	0.9142	5.9506	0.0000	22,582.2102	22,582.2102	2.3234	0.0000	22,640.2944
<b>Maximum</b>	<b>32.5270</b>	<b>323.1127</b>	<b>233.5429</b>	<b>0.8625</b>	<b>111.5102</b>	<b>9.8249</b>	<b>117.8029</b>	<b>27.1471</b>	<b>9.2530</b>	<b>32.9885</b>	<b>0.0000</b>	<b>88,249.9729</b>	<b>88,249.9729</b>	<b>10.3152</b>	<b>0.0000</b>	<b>88,507.8539</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					
2019	7.9198	147.3963	137.4846	0.6108	26.6102	0.9384	27.5487	6.6468	0.9097	7.5565	0.0000	64,190.3456	64,190.3456	8.0485	0.0000	64,391.5579
2020	16.1989	153.4353	258.1433	0.8625	107.9076	1.0921	108.7307	26.6016	1.0584	27.4011	0.0000	88,249.9729	88,249.9729	10.3152	0.0000	88,507.8539
2021	19.9420	53.3843	165.6111	0.3984	19.7665	0.4211	20.1875	5.2849	0.4070	5.6920	0.0000	39,280.4885	39,280.4885	3.4475	0.0000	39,366.6749
2022	19.4209	51.4646	160.5174	0.3916	19.7665	0.4090	20.1755	5.2849	0.3957	5.6806	0.0000	38,610.8129	38,610.8129	3.3373	0.0000	38,694.2439
2023	2.4094	30.4441	41.0479	0.2137	8.6871	0.1474	8.8346	3.0113	0.1433	3.1546	0.0000	22,582.2102	22,582.2102	2.3234	0.0000	22,640.2944
<b>Maximum</b>	<b>19.9420</b>	<b>153.4353</b>	<b>258.1433</b>	<b>0.8625</b>	<b>107.9076</b>	<b>1.0921</b>	<b>108.7307</b>	<b>26.6016</b>	<b>1.0584</b>	<b>27.4011</b>	<b>0.0000</b>	<b>88,249.9729</b>	<b>88,249.9729</b>	<b>10.3152</b>	<b>0.0000</b>	<b>88,507.8539</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>40.79</b>	<b>50.19</b>	<b>-8.21</b>	<b>0.00</b>	<b>5.64</b>	<b>88.77</b>	<b>14.49</b>	<b>6.24</b>	<b>88.50</b>	<b>31.16</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	Demo/Grade Overlap	Demolition	9/27/2019	1/16/2020	5	80	
2	Demo/Grade/Piles/Foundation Overlap	Grading	1/17/2020	5/18/2020	5	87	
3	Piles/Foundation/Superstructure	Trenching	5/19/2020	10/5/2020	5	100	
4	Piles/Foundation/Superstructure/ Building Envelope/Interior Construction	Trenching	10/6/2020	8/4/2021	5	217	
5	Architectural Coating	Architectural Coating	6/1/2021	6/9/2022	5	268	
6	Super Structure/Building Envelope/Interior/Paving/Landscape	Building Construction	8/5/2021	6/9/2022	5	221	
7	Paving/Concrete/Landscape/Cleanup	Paving	6/10/2022	8/25/2022	5	55	
8	MEP	Building Construction	8/26/2022	3/29/2023	5	154	
9	Ogden Demo/Excavation/Shoring	Grading	1/1/2023	2/28/2023	5	42	

10	Ogden Structure	Building Construction	3/1/2023	8/31/2023	5	132
11	Ogden Cladding/Finishes	Building Construction	9/1/2023	12/31/2023	5	86

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.34

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 405,000; Non-Residential Outdoor: 135,000; Striped Parking

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo/Grade Overlap	Air Compressors	0	6.00	78	0.48
Demo/Grade Overlap	Bore/Drill Rigs	1	8.00	221	0.50
Demo/Grade Overlap	Concrete/Industrial Saws	0	8.00	81	0.73
Demo/Grade Overlap	Cranes	3	8.00	231	0.29
Demo/Grade Overlap	Excavators	2	8.00	158	0.38
Demo/Grade Overlap	Pumps	2	8.00	84	0.74
Demo/Grade Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Grade Overlap	Rubber Tired Loaders	13	8.00	203	0.36
Demo/Grade Overlap	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Aerial Lifts	4	8.00	63	0.31
Demo/Grade/Piles/Foundation Overlap	Air Compressors	6	8.00	78	0.48
Demo/Grade/Piles/Foundation Overlap	Bore/Drill Rigs	2	8.00	221	0.50
Demo/Grade/Piles/Foundation Overlap	Cranes	4	8.00	231	0.29
Demo/Grade/Piles/Foundation Overlap	Excavators	3	8.00	158	0.38
Demo/Grade/Piles/Foundation Overlap	Forklifts	5	8.00	89	0.20
Demo/Grade/Piles/Foundation Overlap	Generator Sets	0	8.00	84	0.74
Demo/Grade/Piles/Foundation Overlap	Graders	0	8.00	187	0.41
Demo/Grade/Piles/Foundation Overlap	Pumps	5	8.00	84	0.74
Demo/Grade/Piles/Foundation Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Grade/Piles/Foundation Overlap	Rubber Tired Loaders	13	8.00	203	0.36
Demo/Grade/Piles/Foundation Overlap	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Welders	6	8.00	46	0.45
Piles/Foundation/Superstructure	Aerial Lifts	4	8.00	63	0.31
Piles/Foundation/Superstructure	Air Compressors	6	8.00	78	0.48
Piles/Foundation/Superstructure	Bore/Drill Rigs	1	8.00	221	0.50
Piles/Foundation/Superstructure	Cranes	1	8.00	231	0.29
Piles/Foundation/Superstructure	Excavators	1	8.00	158	0.38
Piles/Foundation/Superstructure	Forklifts	5	8.00	89	0.20
Piles/Foundation/Superstructure	Pumps	3	8.00	84	0.74
Piles/Foundation/Superstructure	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Piles/Foundation/Superstructure	Welders	6	8.00	46	0.45
Piles/Foundation/Superstructure/Buildin	Aerial Lifts	4	8.00	63	0.31
Piles/Foundation/Superstructure/Buildin	Air Compressors	12	8.00	78	0.48
Piles/Foundation/Superstructure/Buildin	Bore/Drill Rigs	1	8.00	221	0.50
Piles/Foundation/Superstructure/Buildin	Excavators	1	8.00	158	0.38
Piles/Foundation/Superstructure/Buildin	Forklifts	10	8.00	89	0.20
Piles/Foundation/Superstructure/Buildin	Pumps	4	8.00	84	0.74
Piles/Foundation/Superstructure/Buildin	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Piles/Foundation/Superstructure/Buildin	Welders	9	8.00	46	0.45

Architectural Coating	Air Compressors	0	6.00	78	0.48
Architectural Coating	Pavers	0	8.00	130	0.42
Architectural Coating	Paving Equipment	0	8.00	132	0.36
Architectural Coating	Rollers	0	8.00	80	0.38
Super Structure/Building	Aerial Lifts	4	8.00	63	0.31
Super Structure/Building	Air Compressors	12	8.00	78	0.48
Super Structure/Building	Bore/Drill Rigs	1	8.00	221	0.50
Super Structure/Building	Cranes	0	7.00	231	0.29
Super Structure/Building	Excavators	1	8.00	158	0.38
Super Structure/Building	Forklifts	10	8.00	89	0.20
Super Structure/Building	Generator Sets	0	8.00	84	0.74
Super Structure/Building	Pavers	1	8.00	130	0.42
Super Structure/Building	Pumps	4	8.00	84	0.74
Super Structure/Building	Skid Steer Loaders	1	8.00	65	0.37
Super Structure/Building	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Super Structure/Building	Welders	9	8.00	46	0.45
Paving/Concrete/Landscape/Cleanup	Pavers	1	8.00	130	0.42
Paving/Concrete/Landscape/Cleanup	Paving Equipment	0	8.00	132	0.36
Paving/Concrete/Landscape/Cleanup	Rollers	0	8.00	80	0.38
Paving/Concrete/Landscape/Cleanup	Skid Steer Loaders	1	8.00	65	0.37
Paving/Concrete/Landscape/Cleanup	Tractors/Loaders/Backhoes	1	8.00	97	0.37
MEP	Cranes	0	7.00	231	0.29
MEP	Forklifts	0	8.00	89	0.20
MEP	Generator Sets	0	8.00	84	0.74
MEP	Tractors/Loaders/Backhoes	0	7.00	97	0.37
MEP	Welders	0	8.00	46	0.45
Ogden Structure	Cranes	0	7.00	231	0.29
Ogden Cladding/Finishes	Cranes	0	7.00	231	0.29
Ogden Demo/Excavation/Shoring	Excavators	1	8.00	158	0.38
Ogden Structure	Forklifts	2	8.00	89	0.20
Ogden Cladding/Finishes	Forklifts	2	8.00	89	0.20
Ogden Structure	Generator Sets	0	8.00	84	0.74
Ogden Cladding/Finishes	Generator Sets	0	8.00	84	0.74
Ogden Demo/Excavation/Shoring	Graders	0	8.00	187	0.41
Ogden Demo/Excavation/Shoring	Rubber Tired Dozers	1	8.00	247	0.40
Ogden Structure	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Ogden Cladding/Finishes	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Ogden Demo/Excavation/Shoring	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Ogden Structure	Welders	1	8.00	46	0.45
Ogden Cladding/Finishes	Welders	1	8.00	46	0.45
Ogden Demo/Excavation/Shoring	Bore/Drill Rigs	1	8.00	221	0.50
Ogden Demo/Excavation/Shoring	Cranes	1	8.00	231	0.29
Ogden Demo/Excavation/Shoring	Forklifts	1	8.00	89	0.20
Ogden Structure	Pumps	1	8.00	84	0.74
Ogden Cladding/Finishes	Aerial Lifts	1	8.00	63	0.31
Ogden Cladding/Finishes	Air Compressors	1	8.00	78	0.48
Ogden Cladding/Finishes	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
Demo/Grade Overlap	33	200.00	30.00	11,200.00	14.70	6.90	80.00	LD_Mix	HDT_Mix	HHDT
Demo/Grade/Piles/Fo	63	1,660.00	0.00	12,180.00	14.70	6.90	80.00	LD_Mix	HHDT	HHDT
Foundation/Overland Piles/Foundation/Sup	30	1,400.00	190.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
structure/Envelope/Interior	44	1,600.00	294.00	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
Super	47	1,600.00	294.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Structure/Building Paving/Concrete/Land	3	1,000.00	104.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
scape/Cleanup	0	50.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
MEP	0	50.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ogden Structure	6	66.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ogden Cladding/Finishes	8	125.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ogden Demo/Excavation/Sho	8	42.00	6.00	2,200.00	14.70	6.90	80.00	LD_Mix	HDT_Mix	HHDT
ring										

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment  
Water Exposed Area

### 3.2 Demo/Grade Overlap - 2019

#### 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					5.9060	0.0000	5.9060	0.8942	0.0000	0.8942			0.0000			0.0000
Off-Road	13.0349	145.0092	76.4540	0.1795		6.4446	6.4446		5.9671	5.9671		17,719.9598	17,719.9598	5.2955		17,852.3469
<b>Total</b>	<b>13.0349</b>	<b>145.0092</b>	<b>76.4540</b>	<b>0.1795</b>	<b>5.9060</b>	<b>6.4446</b>	<b>12.3506</b>	<b>0.8942</b>	<b>5.9671</b>	<b>6.8613</b>		<b>17,719.9598</b>	<b>17,719.9598</b>	<b>5.2955</b>		<b>17,852.3469</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	4.4997	133.6492	31.6347	0.4007	19.7990	0.6057	20.4046	5.1393	0.5794	5.7187		43,372.2929	43,372.2929	2.6173		43,437.7242
Vendor	0.1300	3.4765	1.0154	7.6300e-003	0.3289	0.0225	0.3514	0.0889	0.0215	0.1104		813.8313	813.8313	0.0572		815.2606
Worker	1.1075	0.8132	8.8495	0.0230	4.1790	0.0193	4.1983	1.0699	0.0178	1.0877		2,284.2616	2,284.2616	0.0786		2,286.2262
<b>Total</b>	<b>5.7373</b>	<b>137.9389</b>	<b>41.4997</b>	<b>0.4313</b>	<b>24.3069</b>	<b>0.6474</b>	<b>24.9543</b>	<b>6.2981</b>	<b>0.6187</b>	<b>6.9168</b>		<b>46,470.3858</b>	<b>46,470.3858</b>	<b>2.7530</b>		<b>46,539.2110</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3034	0.0000	2.3034	0.3488	0.0000	0.3488			0.0000			0.0000
Off-Road	2.1825	9.4574	95.9849	0.1795		0.2910	0.2910		0.2910	0.2910	0.0000	17,719.9598	17,719.9598	5.2955		17,852.3469
<b>Total</b>	<b>2.1825</b>	<b>9.4574</b>	<b>95.9849</b>	<b>0.1795</b>	<b>2.3034</b>	<b>0.2910</b>	<b>2.5944</b>	<b>0.3488</b>	<b>0.2910</b>	<b>0.6398</b>	<b>0.0000</b>	<b>17,719.9598</b>	<b>17,719.9598</b>	<b>5.2955</b>		<b>17,852.3469</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	4.4997	133.6492	31.6347	0.4007	19.7990	0.6057	20.4046	5.1393	0.5794	5.7187		43,372.2929	43,372.2929	2.6173		43,437.7242
Vendor	0.1300	3.4765	1.0154	7.6300e-003	0.3289	0.0225	0.3514	0.0889	0.0215	0.1104		813.8313	813.8313	0.0572		815.2606
Worker	1.1075	0.8132	8.8495	0.0230	4.1790	0.0193	4.1983	1.0699	0.0178	1.0877		2,284.2616	2,284.2616	0.0786		2,286.2262
<b>Total</b>	<b>5.7373</b>	<b>137.9389</b>	<b>41.4997</b>	<b>0.4313</b>	<b>24.3069</b>	<b>0.6474</b>	<b>24.9543</b>	<b>6.2981</b>	<b>0.6187</b>	<b>6.9168</b>		<b>46,470.3858</b>	<b>46,470.3858</b>	<b>2.7530</b>		<b>46,539.2110</b>

**3.2 Demo/Grade Overlap - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.9060	0.0000	5.9060	0.8942	0.0000	0.8942			0.0000			0.0000
Off-Road	12.0911	132.6206	74.8083	0.1795		5.7606	5.7606		5.3329	5.3329		17,361.9309	17,361.9309	5.2868		17,494.0995
<b>Total</b>	<b>12.0911</b>	<b>132.6206</b>	<b>74.8083</b>	<b>0.1795</b>	<b>5.9060</b>	<b>5.7606</b>	<b>11.6666</b>	<b>0.8942</b>	<b>5.3329</b>	<b>6.2271</b>		<b>17,361.9309</b>	<b>17,361.9309</b>	<b>5.2868</b>		<b>17,494.0995</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	4.2107	124.2855	31.0444	0.3956	101.0963	0.4982	101.5945	25.0941	0.4766	25.5708		42,877.6552	42,877.6552	2.6006		42,942.6705
Vendor	0.1115	3.1905	0.9222	7.5700e-003	0.3289	0.0153	0.3442	0.0889	0.0146	0.1035		808.3472	808.3472	0.0541		809.6985
Worker	1.0221	0.7249	8.0202	0.0222	4.1790	0.0187	4.1977	1.0699	0.0172	1.0871		2,214.8408	2,214.8408	0.0698		2,216.5860
<b>Total</b>	<b>5.3443</b>	<b>128.2009</b>	<b>39.9867</b>	<b>0.4254</b>	<b>105.6042</b>	<b>0.5322</b>	<b>106.1364</b>	<b>26.2529</b>	<b>0.5085</b>	<b>26.7614</b>		<b>45,900.8431</b>	<b>45,900.8431</b>	<b>2.7245</b>		<b>45,968.9550</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3034	0.0000	2.3034	0.3488	0.0000	0.3488			0.0000			0.0000
Off-Road	2.1825	9.4574	95.9849	0.1795		0.2910	0.2910		0.2910	0.2910	0.0000	17,361.9308	17,361.9308	5.2868		17,494.0995
<b>Total</b>	<b>2.1825</b>	<b>9.4574</b>	<b>95.9849</b>	<b>0.1795</b>	<b>2.3034</b>	<b>0.2910</b>	<b>2.5944</b>	<b>0.3488</b>	<b>0.2910</b>	<b>0.6398</b>	<b>0.0000</b>	<b>17,361.9308</b>	<b>17,361.9308</b>	<b>5.2868</b>		<b>17,494.0995</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	4.2107	124.2855	31.0444	0.3956	101.0963	0.4982	101.5945	25.0941	0.4766	25.5708		42,877.6552	42,877.6552	2.6006		42,942.6705
Vendor	0.1115	3.1905	0.9222	7.5700e-003	0.3289	0.0153	0.3442	0.0889	0.0146	0.1035		808.3472	808.3472	0.0541		809.6985
Worker	1.0221	0.7249	8.0202	0.0222	4.1790	0.0187	4.1977	1.0699	0.0172	1.0871		2,214.8408	2,214.8408	0.0698		2,216.5860
<b>Total</b>	<b>5.3443</b>	<b>128.2009</b>	<b>39.9867</b>	<b>0.4254</b>	<b>105.6042</b>	<b>0.5322</b>	<b>106.1364</b>	<b>26.2529</b>	<b>0.5085</b>	<b>26.7614</b>		<b>45,900.8431</b>	<b>45,900.8431</b>	<b>2.7245</b>		<b>45,968.9550</b>

**3.3 Demo/Grade/Piles/Foundation Overlap - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.3107	0.0000	12.3107	6.6608	0.0000	6.6608			0.0000			0.0000
Off-Road	19.8333	192.8102	135.9308	0.2824		9.1716	9.1716		8.6334	8.6334		26,989.1393	26,989.1393	7.1352		27,167.5194
<b>Total</b>	<b>19.8333</b>	<b>192.8102</b>	<b>135.9308</b>	<b>0.2824</b>	<b>12.3107</b>	<b>9.1716</b>	<b>21.4822</b>	<b>6.6608</b>	<b>8.6334</b>	<b>15.2943</b>		<b>26,989.1393</b>	<b>26,989.1393</b>	<b>7.1352</b>		<b>27,167.5194</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	4.2107	124.2855	31.0444	0.3956	9.7824	0.4982	10.2806	2.6807	0.4766	3.1574		42,877.6552	42,877.6552	2.6006		42,942.6705
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.4830	6.0170	66.5678	0.1846	18.5549	0.1551	18.7100	4.9208	0.1429	5.0637		18,383.1784	18,383.1784	0.5794		18,397.6640
<b>Total</b>	<b>12.6937</b>	<b>130.3025</b>	<b>97.6122</b>	<b>0.5801</b>	<b>28.3373</b>	<b>0.6533</b>	<b>28.9906</b>	<b>7.6015</b>	<b>0.6195</b>	<b>8.2211</b>		<b>61,260.8336</b>	<b>61,260.8336</b>	<b>3.1800</b>		<b>61,340.3345</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					4.8012	0.0000	4.8012	2.5977	0.0000	2.5977			0.0000			0.0000
Off-Road	3.5052	23.1328	160.5312	0.2824		0.4388	0.4388		0.4388	0.4388	0.0000	26,989.13 93	26,989.13 93	7.1352		27,167.51 94
<b>Total</b>	<b>3.5052</b>	<b>23.1328</b>	<b>160.5312</b>	<b>0.2824</b>	<b>4.8012</b>	<b>0.4388</b>	<b>5.2400</b>	<b>2.5977</b>	<b>0.4388</b>	<b>3.0365</b>	<b>0.0000</b>	<b>26,989.13 93</b>	<b>26,989.13 93</b>	<b>7.1352</b>		<b>27,167.51 94</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	4.2107	124.2855	31.0444	0.3956	9.7824	0.4982	10.2806	2.6807	0.4766	3.1574		42,877.65 52	42,877.65 52	2.6006		42,942.67 05
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.4830	6.0170	66.5678	0.1846	18.5549	0.1551	18.7100	4.9208	0.1429	5.0637		18,383.17 84	18,383.17 84	0.5794		18,397.66 40
<b>Total</b>	<b>12.6937</b>	<b>130.3025</b>	<b>97.6122</b>	<b>0.5801</b>	<b>28.3373</b>	<b>0.6533</b>	<b>28.9906</b>	<b>7.6015</b>	<b>0.6195</b>	<b>8.2211</b>		<b>61,260.83 36</b>	<b>61,260.83 36</b>	<b>3.1800</b>		<b>61,340.33 45</b>

**3.4 Piles/Foundation/Superstructure - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.7423	60.1897	61.1225	0.1029		3.4110	3.4110		3.3006	3.3006		9,627.208 5	9,627.208 5	1.8485		9,673.419 9
<b>Total</b>	<b>7.7423</b>	<b>60.1897</b>	<b>61.1225</b>	<b>0.1029</b>		<b>3.4110</b>	<b>3.4110</b>		<b>3.3006</b>	<b>3.3006</b>		<b>9,627.208 5</b>	<b>9,627.208 5</b>	<b>1.8485</b>		<b>9,673.419 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8235	30.5954	6.4762	0.0625	1.1488	0.0681	1.2168	0.3151	0.0651	0.3803		6,764.868 3	6,764.868 3	0.6269		6,780.541 0
Worker	7.1543	5.0746	56.1415	0.1557	15.6487	0.1308	15.7795	4.1501	0.1205	4.2706		15,503.88 54	15,503.88 54	0.4887		15,516.10 21
<b>Total</b>	<b>7.9778</b>	<b>35.6700</b>	<b>62.6177</b>	<b>0.2181</b>	<b>16.7975</b>	<b>0.1989</b>	<b>16.9963</b>	<b>4.4652</b>	<b>0.1857</b>	<b>4.6509</b>		<b>22,268.75 37</b>	<b>22,268.75 37</b>	<b>1.1156</b>		<b>22,296.64 32</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	1.3227	13.6754	64.5463	0.1029		0.1478	0.1478		0.1478	0.1478	0.0000	9,627.2085	9,627.2085	1.8485		9,673.4199
<b>Total</b>	<b>1.3227</b>	<b>13.6754</b>	<b>64.5463</b>	<b>0.1029</b>		<b>0.1478</b>	<b>0.1478</b>		<b>0.1478</b>	<b>0.1478</b>	<b>0.0000</b>	<b>9,627.2085</b>	<b>9,627.2085</b>	<b>1.8485</b>		<b>9,673.4199</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8235	30.5954	6.4762	0.0625	1.1488	0.0681	1.2168	0.3151	0.0651	0.3803		6,764.8683	6,764.8683	0.6269		6,780.5410
Worker	7.1543	5.0746	56.1415	0.1557	15.6487	0.1308	15.7795	4.1501	0.1205	4.2706		15,503.8854	15,503.8854	0.4887		15,516.1021
<b>Total</b>	<b>7.9778</b>	<b>35.6700</b>	<b>62.6177</b>	<b>0.2181</b>	<b>16.7975</b>	<b>0.1989</b>	<b>16.9963</b>	<b>4.4652</b>	<b>0.1857</b>	<b>4.6509</b>		<b>22,268.7537</b>	<b>22,268.7537</b>	<b>1.1156</b>		<b>22,296.6432</b>

**3.5 Piles/Foundation/Superstructure/Building Envelope/Interior**

**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	11.3958	82.9994	88.6234	0.1427		5.0274	5.0274		4.8961	4.8961		13,305.6251	13,305.6251	2.2107		13,360.8931
<b>Total</b>	<b>11.3958</b>	<b>82.9994</b>	<b>88.6234</b>	<b>0.1427</b>		<b>5.0274</b>	<b>5.0274</b>		<b>4.8961</b>	<b>4.8961</b>		<b>13,305.6251</b>	<b>13,305.6251</b>	<b>2.2107</b>		<b>13,360.8931</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0931	31.2671	9.0371	0.0742	1.8822	0.1495	2.0317	0.5419	0.1430	0.6850		7,921.8025	7,921.8025	0.5297		7,935.0456
Worker	8.1764	5.7995	64.1617	0.1779	17.8842	0.1495	18.0337	4.7430	0.1377	4.8807		17,718.7262	17,718.7262	0.5585		17,732.6882
<b>Total</b>	<b>9.2695</b>	<b>37.0666</b>	<b>73.1988</b>	<b>0.2521</b>	<b>19.7664</b>	<b>0.2990</b>	<b>20.0655</b>	<b>5.2849</b>	<b>0.2808</b>	<b>5.5657</b>		<b>25,640.5287</b>	<b>25,640.5287</b>	<b>1.0882</b>		<b>25,667.7338</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	1.7810	18.1034	90.9611	0.1427		0.2002	0.2002		0.2002	0.2002	0.0000	13,305.6251	13,305.6251	2.2107		13,360.8931
<b>Total</b>	<b>1.7810</b>	<b>18.1034</b>	<b>90.9611</b>	<b>0.1427</b>		<b>0.2002</b>	<b>0.2002</b>		<b>0.2002</b>	<b>0.2002</b>	<b>0.0000</b>	<b>13,305.6251</b>	<b>13,305.6251</b>	<b>2.2107</b>		<b>13,360.8931</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0931	31.2671	9.0371	0.0742	1.8822	0.1495	2.0317	0.5419	0.1430	0.6850		7,921.8025	7,921.8025	0.5297		7,935.0456
Worker	8.1764	5.7995	64.1617	0.1779	17.8842	0.1495	18.0337	4.7430	0.1377	4.8807		17,718.7262	17,718.7262	0.5585		17,732.6882
<b>Total</b>	<b>9.2695</b>	<b>37.0666</b>	<b>73.1988</b>	<b>0.2521</b>	<b>19.7664</b>	<b>0.2990</b>	<b>20.0655</b>	<b>5.2849</b>	<b>0.2808</b>	<b>5.5657</b>		<b>25,640.5287</b>	<b>25,640.5287</b>	<b>1.0882</b>		<b>25,667.7338</b>

**3.5 Piles/Foundation/Superstructure/Building Envelope/Interior**

**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	10.2404	75.9069	87.6940	0.1428		4.2972	4.2972		4.1840	4.1840		13,308.3533	13,308.3533	2.1260		13,361.5025
<b>Total</b>	<b>10.2404</b>	<b>75.9069</b>	<b>87.6940</b>	<b>0.1428</b>		<b>4.2972</b>	<b>4.2972</b>		<b>4.1840</b>	<b>4.1840</b>		<b>13,308.3533</b>	<b>13,308.3533</b>	<b>2.1260</b>		<b>13,361.5025</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9382	28.4853	8.2546	0.0736	1.8822	0.0602	1.9425	0.5419	0.0576	0.5995		7,859.9584	7,859.9584	0.5074		7,872.6438
Worker	7.6291	5.2184	58.9209	0.1722	17.8842	0.1445	18.0287	4.7430	0.1331	4.8761		17,156.0175	17,156.0175	0.5048		17,168.6384
<b>Total</b>	<b>8.5673</b>	<b>33.7037</b>	<b>67.1755</b>	<b>0.2458</b>	<b>19.7665</b>	<b>0.2048</b>	<b>19.9712</b>	<b>5.2849</b>	<b>0.1907</b>	<b>5.4756</b>		<b>25,015.9759</b>	<b>25,015.9759</b>	<b>1.0123</b>		<b>25,041.2821</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	1.7810	18.1034	90.9611	0.1428		0.2002	0.2002		0.2002	0.2002	0.0000	13,308.3533	13,308.3533	2.1260		13,361.5025
<b>Total</b>	<b>1.7810</b>	<b>18.1034</b>	<b>90.9611</b>	<b>0.1428</b>		<b>0.2002</b>	<b>0.2002</b>		<b>0.2002</b>	<b>0.2002</b>	<b>0.0000</b>	<b>13,308.3533</b>	<b>13,308.3533</b>	<b>2.1260</b>		<b>13,361.5025</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9382	28.4853	8.2546	0.0736	1.8822	0.0602	1.9425	0.5419	0.0576	0.5995		7,859.9584	7,859.9584	0.5074		7,872.6438
Worker	7.6291	5.2184	58.9209	0.1722	17.8842	0.1445	18.0287	4.7430	0.1331	4.8761		17,156.0175	17,156.0175	0.5048		17,168.6384
<b>Total</b>	<b>8.5673</b>	<b>33.7037</b>	<b>67.1755</b>	<b>0.2458</b>	<b>19.7665</b>	<b>0.2048</b>	<b>19.9712</b>	<b>5.2849</b>	<b>0.1907</b>	<b>5.4756</b>		<b>25,015.9759</b>	<b>25,015.9759</b>	<b>1.0123</b>		<b>25,041.2821</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.4471					0.0000	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	0.0000	0.0000		0.0000
<b>Total</b>	<b>9.4471</b>	<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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	9.4471					0.0000	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	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>9.4471</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.4471					0.0000	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	0.0000	0.0000		0.0000
<b>Total</b>	<b>9.4471</b>	<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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	9.4471					0.0000	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	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>9.4471</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

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

**3.7 Super Structure/Building**

**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	10.7494	81.4013	94.2490	0.1527		4.5752	4.5752		4.4398	4.4398		14,264.5126	14,264.5126	2.4352		14,325.3928
<b>Total</b>	<b>10.7494</b>	<b>81.4013</b>	<b>94.2490</b>	<b>0.1527</b>		<b>4.5752</b>	<b>4.5752</b>		<b>4.4398</b>	<b>4.4398</b>		<b>14,264.5126</b>	<b>14,264.5126</b>	<b>2.4352</b>		<b>14,325.3928</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9382	28.4853	8.2546	0.0736	1.8822	0.0602	1.9425	0.5419	0.0576	0.5995		7,859.9584	7,859.9584	0.5074		7,872.6438
Worker	7.6291	5.2184	58.9209	0.1722	17.8842	0.1445	18.0287	4.7430	0.1331	4.8761		17,156.0175	17,156.0175	0.5048		17,168.6384
<b>Total</b>	<b>8.5673</b>	<b>33.7037</b>	<b>67.1755</b>	<b>0.2458</b>	<b>19.7665</b>	<b>0.2048</b>	<b>19.9712</b>	<b>5.2849</b>	<b>0.1907</b>	<b>5.4756</b>		<b>25,015.9759</b>	<b>25,015.9759</b>	<b>1.0123</b>		<b>25,041.2821</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	1.9276	19.6806	98.4356	0.1527		0.2163	0.2163		0.2163	0.2163	0.0000	14,264.5126	14,264.5126	2.4352		14,325.3928
<b>Total</b>	<b>1.9276</b>	<b>19.6806</b>	<b>98.4356</b>	<b>0.1527</b>		<b>0.2163</b>	<b>0.2163</b>		<b>0.2163</b>	<b>0.2163</b>	<b>0.0000</b>	<b>14,264.5126</b>	<b>14,264.5126</b>	<b>2.4352</b>		<b>14,325.3928</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9382	28.4853	8.2546	0.0736	1.8822	0.0602	1.9425	0.5419	0.0576	0.5995		7,859.9584	7,859.9584	0.5074		7,872.6438
Worker	7.6291	5.2184	58.9209	0.1722	17.8842	0.1445	18.0287	4.7430	0.1331	4.8761		17,156.0175	17,156.0175	0.5048		17,168.6384
<b>Total</b>	<b>8.5673</b>	<b>33.7037</b>	<b>67.1755</b>	<b>0.2458</b>	<b>19.7665</b>	<b>0.2048</b>	<b>19.9712</b>	<b>5.2849</b>	<b>0.1907</b>	<b>5.4756</b>		<b>25,015.9759</b>	<b>25,015.9759</b>	<b>1.0123</b>		<b>25,041.2821</b>

**3.7 Super Structure/Building**

**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	9.8130	74.1406	93.6398	0.1527		3.8989	3.8989		3.7874	3.7874		14,267.5754	14,267.5754	2.3919		14,327.3721
<b>Total</b>	<b>9.8130</b>	<b>74.1406</b>	<b>93.6398</b>	<b>0.1527</b>		<b>3.8989</b>	<b>3.8989</b>		<b>3.7874</b>	<b>3.7874</b>		<b>14,267.5754</b>	<b>14,267.5754</b>	<b>2.3919</b>		<b>14,327.3721</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8807	27.0713	7.8136	0.0729	1.8823	0.0527	1.9350	0.5419	0.0504	0.5923		7,790.1262	7,790.1262	0.4896		7,802.3659
Worker	7.1655	4.7127	54.2682	0.1661	17.8842	0.1400	18.0242	4.7430	0.1289	4.8719		16,553.1113	16,553.1113	0.4558		16,564.5060
<b>Total</b>	<b>8.0462</b>	<b>31.7840</b>	<b>62.0818</b>	<b>0.2390</b>	<b>19.7665</b>	<b>0.1927</b>	<b>19.9592</b>	<b>5.2849</b>	<b>0.1793</b>	<b>5.4643</b>		<b>24,343.2375</b>	<b>24,343.2375</b>	<b>0.9454</b>		<b>24,366.8719</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	1.9276	19.6806	98.4356	0.1527		0.2163	0.2163		0.2163	0.2163	0.0000	14,267.5754	14,267.5754	2.3919		14,327.3721
<b>Total</b>	<b>1.9276</b>	<b>19.6806</b>	<b>98.4356</b>	<b>0.1527</b>		<b>0.2163</b>	<b>0.2163</b>		<b>0.2163</b>	<b>0.2163</b>	<b>0.0000</b>	<b>14,267.5754</b>	<b>14,267.5754</b>	<b>2.3919</b>		<b>14,327.3721</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8807	27.0713	7.8136	0.0729	1.8823	0.0527	1.9350	0.5419	0.0504	0.5923		7,790.1262	7,790.1262	0.4896		7,802.3659
Worker	7.1655	4.7127	54.2682	0.1661	17.8842	0.1400	18.0242	4.7430	0.1289	4.8719		16,553.1113	16,553.1113	0.4558		16,564.5060
<b>Total</b>	<b>8.0462</b>	<b>31.7840</b>	<b>62.0818</b>	<b>0.2390</b>	<b>19.7665</b>	<b>0.1927</b>	<b>19.9592</b>	<b>5.2849</b>	<b>0.1793</b>	<b>5.4643</b>		<b>24,343.2375</b>	<b>24,343.2375</b>	<b>0.9454</b>		<b>24,366.8719</b>

**3.8 Paving/Concrete/Landscape/Cleanup - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4412	4.7031	6.5091	9.8800e-003		0.2244	0.2244		0.2064	0.2064		956.8881	956.8881	0.3095		964.6251
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4412</b>	<b>4.7031</b>	<b>6.5091</b>	<b>9.8800e-003</b>		<b>0.2244</b>	<b>0.2244</b>		<b>0.2064</b>	<b>0.2064</b>		<b>956.8881</b>	<b>956.8881</b>	<b>0.3095</b>		<b>964.6251</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3115	9.5762	2.7640	0.0258	0.6658	0.0186	0.6845	0.1917	0.0178	0.2095		2,755.6909	2,755.6909	0.1732		2,760.0206
Worker	4.4784	2.9454	33.9176	0.1038	11.1776	0.0875	11.2651	2.9644	0.0806	3.0450		10,345.6945	10,345.6945	0.2849		10,352.8162
<b>Total</b>	<b>4.7900</b>	<b>12.5217</b>	<b>36.6816</b>	<b>0.1296</b>	<b>11.8435</b>	<b>0.1061</b>	<b>11.9496</b>	<b>3.1561</b>	<b>0.0984</b>	<b>3.2545</b>		<b>13,101.3855</b>	<b>13,101.3855</b>	<b>0.4581</b>		<b>13,112.8368</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	0.1467	1.5772	7.4745	9.8800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	956.8881	956.8881	0.3095		964.6251
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1467</b>	<b>1.5772</b>	<b>7.4745</b>	<b>9.8800e-003</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>956.8881</b>	<b>956.8881</b>	<b>0.3095</b>		<b>964.6251</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3115	9.5762	2.7640	0.0258	0.6658	0.0186	0.6845	0.1917	0.0178	0.2095		2,755.6909	2,755.6909	0.1732		2,760.0206
Worker	4.4784	2.9454	33.9176	0.1038	11.1776	0.0875	11.2651	2.9644	0.0806	3.0450		10,345.6945	10,345.6945	0.2849		10,352.8162
<b>Total</b>	<b>4.7900</b>	<b>12.5217</b>	<b>36.6816</b>	<b>0.1296</b>	<b>11.8435</b>	<b>0.1061</b>	<b>11.9496</b>	<b>3.1561</b>	<b>0.0984</b>	<b>3.2545</b>		<b>13,101.3855</b>	<b>13,101.3855</b>	<b>0.4581</b>		<b>13,112.8368</b>

**3.9 MEP - 2022**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1827	5.6168	1.6212	0.0151	0.3905	0.0109	0.4015	0.1124	0.0105	0.1229		1,616.3187	1,616.3187	0.1016		1,618.8582
Worker	0.7031	0.4624	5.3251	0.0163	1.7549	0.0137	1.7686	0.4654	0.0127	0.4781		1,624.2740	1,624.2740	0.0447		1,625.3922
<b>Total</b>	<b>0.8858</b>	<b>6.0793</b>	<b>6.9463</b>	<b>0.0314</b>	<b>2.1454</b>	<b>0.0247</b>	<b>2.1701</b>	<b>0.5779</b>	<b>0.0231</b>	<b>0.6010</b>		<b>3,240.5928</b>	<b>3,240.5928</b>	<b>0.1463</b>		<b>3,244.2504</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	0.0000	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>		<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	0.0000	0.0000		0.0000
Vendor	0.1827	5.6168	1.6212	0.0151	0.3905	0.0109	0.4015	0.1124	0.0105	0.1229		1,616.3187	1,616.3187	0.1016		1,618.8582
Worker	0.7031	0.4624	5.3251	0.0163	1.7549	0.0137	1.7686	0.4654	0.0127	0.4781		1,624.2740	1,624.2740	0.0447		1,625.3922
<b>Total</b>	<b>0.8858</b>	<b>6.0793</b>	<b>6.9463</b>	<b>0.0314</b>	<b>2.1454</b>	<b>0.0247</b>	<b>2.1701</b>	<b>0.5779</b>	<b>0.0231</b>	<b>0.6010</b>		<b>3,240.5928</b>	<b>3,240.5928</b>	<b>0.1463</b>		<b>3,244.2504</b>

**3.9 MEP - 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	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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1358	4.2541	1.4406	0.0146	0.3906	5.1900e-003	0.3957	0.1125	4.9600e-003	0.1174		1,566.1220	1,566.1220	0.0894		1,568.3576
Worker	0.6624	0.4182	4.8947	0.0157	1.7549	0.0134	1.7682	0.4654	0.0123	0.4777		1,564.8513	1,564.8513	0.0403		1,565.8581
<b>Total</b>	<b>0.7982</b>	<b>4.6723</b>	<b>6.3353</b>	<b>0.0303</b>	<b>2.1454</b>	<b>0.0185</b>	<b>2.1640</b>	<b>0.5779</b>	<b>0.0173</b>	<b>0.5951</b>		<b>3,130.9733</b>	<b>3,130.9733</b>	<b>0.1297</b>		<b>3,134.2157</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	0.0000	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>		<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	0.0000	0.0000		0.0000
Vendor	0.1358	4.2541	1.4406	0.0146	0.3906	5.1900e-003	0.3957	0.1125	4.9600e-003	0.1174		1,566.1220	1,566.1220	0.0894		1,568.3576
Worker	0.6624	0.4182	4.8947	0.0157	1.7549	0.0134	1.7682	0.4654	0.0123	0.4777		1,564.8513	1,564.8513	0.0403		1,565.8581
<b>Total</b>	<b>0.7982</b>	<b>4.6723</b>	<b>6.3353</b>	<b>0.0303</b>	<b>2.1454</b>	<b>0.0185</b>	<b>2.1640</b>	<b>0.5779</b>	<b>0.0173</b>	<b>0.5951</b>		<b>3,130.9733</b>	<b>3,130.9733</b>	<b>0.1297</b>		<b>3,134.2157</b>

**3.10 Ogden Demo/Excavation/Shoring - 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					6.0851	0.0000	6.0851	3.3198	0.0000	3.3198			0.0000			0.0000
Off-Road	1.9965	20.0976	18.0702	0.0398		0.9088	0.9088		0.8361	0.8361		3,854.0892	3,854.0892	1.2465		3,885.2514
<b>Total</b>	<b>1.9965</b>	<b>20.0976</b>	<b>18.0702</b>	<b>0.0398</b>	<b>6.0851</b>	<b>0.9088</b>	<b>6.9939</b>	<b>3.3198</b>	<b>0.8361</b>	<b>4.1559</b>		<b>3,854.0892</b>	<b>3,854.0892</b>	<b>1.2465</b>		<b>3,885.2514</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	0.9320	23.1239	10.4353	0.1379	3.6606	0.0597	3.7203	1.0032	0.0571	1.0603		15,024.4803	15,024.4803	0.9276		15,047.6707
Vendor	0.0134	0.4184	0.1417	1.4400e-003	0.0384	5.1000e-004	0.0389	0.0111	4.9000e-004	0.0116		154.0448	154.0448	8.8000e-003		154.2647
Worker	0.1772	0.1119	1.3094	4.2000e-003	0.4695	3.5700e-003	0.4730	0.1245	3.2900e-003	0.1278		418.6226	418.6226	0.0108		418.8920
<b>Total</b>	<b>1.1226</b>	<b>23.6542</b>	<b>11.8864</b>	<b>0.1436</b>	<b>4.1685</b>	<b>0.0637</b>	<b>4.2323</b>	<b>1.1387</b>	<b>0.0609</b>	<b>1.1996</b>		<b>15,597.1477</b>	<b>15,597.1477</b>	<b>0.9472</b>		<b>15,620.8273</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.3732	0.0000	2.3732	1.2947	0.0000	1.2947			0.0000				0.0000
Off-Road	0.4887	2.1176	22.8262	0.0398		0.0652	0.0652		0.0652	0.0652	0.0000	3,854.0892	3,854.0892	1.2465			3,885.2514
<b>Total</b>	<b>0.4887</b>	<b>2.1176</b>	<b>22.8262</b>	<b>0.0398</b>	<b>2.3732</b>	<b>0.0652</b>	<b>2.4384</b>	<b>1.2947</b>	<b>0.0652</b>	<b>1.3599</b>	<b>0.0000</b>	<b>3,854.0892</b>	<b>3,854.0892</b>	<b>1.2465</b>			<b>3,885.2514</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	0.9320	23.1239	10.4353	0.1379	3.6606	0.0597	3.7203	1.0032	0.0571	1.0603		15,024.4803	15,024.4803	0.9276			15,047.6707
Vendor	0.0134	0.4184	0.1417	1.4400e-003	0.0384	5.1000e-004	0.0389	0.0111	4.9000e-004	0.0116		154.0448	154.0448	8.8000e-003			154.2647
Worker	0.1772	0.1119	1.3094	4.2000e-003	0.4695	3.5700e-003	0.4730	0.1245	3.2900e-003	0.1278		418.6226	418.6226	0.0108			418.8920
<b>Total</b>	<b>1.1226</b>	<b>23.6542</b>	<b>11.8864</b>	<b>0.1436</b>	<b>4.1685</b>	<b>0.0637</b>	<b>4.2323</b>	<b>1.1387</b>	<b>0.0609</b>	<b>1.1996</b>		<b>15,597.1477</b>	<b>15,597.1477</b>	<b>0.9472</b>			<b>15,620.8273</b>

**3.11 Ogden 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	1.0522	8.7802	11.5976	0.0176		0.4413	0.4413		0.4212	0.4212		1,654.3328	1,654.3328	0.3176			1,662.2723
<b>Total</b>	<b>1.0522</b>	<b>8.7802</b>	<b>11.5976</b>	<b>0.0176</b>		<b>0.4413</b>	<b>0.4413</b>		<b>0.4212</b>	<b>0.4212</b>		<b>1,654.3328</b>	<b>1,654.3328</b>	<b>0.3176</b>			<b>1,662.2723</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0979	3.0685	1.0391	0.0106	0.2817	3.7400e-003	0.2855	0.0811	3.5800e-003	0.0847		1,129.6618	1,129.6618	0.0645			1,131.2744
Worker	0.2785	0.1758	2.0577	6.6000e-003	0.7377	5.6100e-003	0.7433	0.1957	5.1700e-003	0.2008		657.8356	657.8356	0.0169			658.2588
<b>Total</b>	<b>0.3764</b>	<b>3.2443</b>	<b>3.0968</b>	<b>0.0172</b>	<b>1.0194</b>	<b>9.3500e-003</b>	<b>1.0288</b>	<b>0.2768</b>	<b>8.7500e-003</b>	<b>0.2855</b>		<b>1,787.4973</b>	<b>1,787.4973</b>	<b>0.0814</b>			<b>1,789.5332</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	0.2137	1.7403	11.9750	0.0176		0.0256	0.0256		0.0256	0.0256	0.0000	1,654.3328	1,654.3328	0.3176		1,662.2723
<b>Total</b>	<b>0.2137</b>	<b>1.7403</b>	<b>11.9750</b>	<b>0.0176</b>		<b>0.0256</b>	<b>0.0256</b>		<b>0.0256</b>	<b>0.0256</b>	<b>0.0000</b>	<b>1,654.3328</b>	<b>1,654.3328</b>	<b>0.3176</b>		<b>1,662.2723</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0979	3.0685	1.0391	0.0106	0.2817	3.7400e-003	0.2855	0.0811	3.5800e-003	0.0847		1,129.6618	1,129.6618	0.0645		1,131.2744
Worker	0.2785	0.1758	2.0577	6.6000e-003	0.7377	5.6100e-003	0.7433	0.1957	5.1700e-003	0.2008		657.8356	657.8356	0.0169		658.2588
<b>Total</b>	<b>0.3764</b>	<b>3.2443</b>	<b>3.0968</b>	<b>0.0172</b>	<b>1.0194</b>	<b>9.3500e-003</b>	<b>1.0288</b>	<b>0.2768</b>	<b>8.7500e-003</b>	<b>0.2855</b>		<b>1,787.4973</b>	<b>1,787.4973</b>	<b>0.0814</b>		<b>1,789.5332</b>

**3.12 Ogden Cladding/Finishes - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0792	9.1560	12.7526	0.0188		0.4391	0.4391		0.4160	0.4160		1,767.9114	1,767.9114	0.4284		1,778.6212
<b>Total</b>	<b>1.0792</b>	<b>9.1560</b>	<b>12.7526</b>	<b>0.0188</b>		<b>0.4391</b>	<b>0.4391</b>		<b>0.4160</b>	<b>0.4160</b>		<b>1,767.9114</b>	<b>1,767.9114</b>	<b>0.4284</b>		<b>1,778.6212</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0401	1.2553	0.4251	4.3200e-003	0.1152	1.5300e-003	0.1168	0.0332	1.4600e-003	0.0347		462.1344	462.1344	0.0264		462.7941
Worker	0.5274	0.3330	3.8971	0.0125	1.3972	0.0106	1.4078	0.3706	9.7800e-003	0.3803		1,245.9007	1,245.9007	0.0321		1,246.7023
<b>Total</b>	<b>0.5675</b>	<b>1.5883</b>	<b>4.3222</b>	<b>0.0168</b>	<b>1.5125</b>	<b>0.0122</b>	<b>1.5246</b>	<b>0.4037</b>	<b>0.0112</b>	<b>0.4150</b>		<b>1,708.0351</b>	<b>1,708.0351</b>	<b>0.0585</b>		<b>1,709.4963</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	0.2794	3.7228	13.1920	0.0188		0.0282	0.0282		0.0282	0.0282	0.0000	1,767.9114	1,767.9114	0.4284		1,778.6212
<b>Total</b>	<b>0.2794</b>	<b>3.7228</b>	<b>13.1920</b>	<b>0.0188</b>		<b>0.0282</b>	<b>0.0282</b>		<b>0.0282</b>	<b>0.0282</b>	<b>0.0000</b>	<b>1,767.9114</b>	<b>1,767.9114</b>	<b>0.4284</b>		<b>1,778.6212</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0401	1.2553	0.4251	4.3200e-003	0.1152	1.5300e-003	0.1168	0.0332	1.4600e-003	0.0347		462.1344	462.1344	0.0264		462.7941
Worker	0.5274	0.3330	3.8971	0.0125	1.3972	0.0106	1.4078	0.3706	9.7800e-003	0.3803		1,245.9007	1,245.9007	0.0321		1,246.7023
<b>Total</b>	<b>0.5675</b>	<b>1.5883</b>	<b>4.3222</b>	<b>0.0168</b>	<b>1.5125</b>	<b>0.0122</b>	<b>1.5246</b>	<b>0.4037</b>	<b>0.0112</b>	<b>0.4150</b>		<b>1,708.0351</b>	<b>1,708.0351</b>	<b>0.0585</b>		<b>1,709.4963</b>

LACMA Construction (Final EIR) - Los Angeles-South Coast County, Winter

**LACMA Construction (Final EIR Regional Daily Concrete Pour Day and Export)**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	270.00	1000sqft	6.20	270,000.00	0
Enclosed Parking with Elevator	74.00	Space	0.67	29,600.00	0
Unenclosed Parking with Elevator	186.00	Space	1.67	74,400.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11	Operational Year			2024

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

- Project Characteristics -
- Land Use -
- Construction Phase - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation - Site Specific MM
- On-road Fugitive Dust -

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tblGrading	MaterialImported	0.00	37,400.00
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tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	83.00	200.00
tblTripsAndVMT	WorkerTripNumber	157.00	66.00
tblTripsAndVMT	WorkerTripNumber	157.00	125.00
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tblTripsAndVMT	WorkerTripNumber	75.00	1,400.00
tblTripsAndVMT	WorkerTripNumber	110.00	1,600.00
tblTripsAndVMT	WorkerTripNumber	31.00	0.00
tblTripsAndVMT	WorkerTripNumber	157.00	1,600.00
tblTripsAndVMT	WorkerTripNumber	8.00	1,000.00
tblTripsAndVMT	WorkerTripNumber	20.00	42.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	32.2978	322.6368	232.2581	0.8261	111.5102	9.7684	117.8029	27.1471	9.1990	32.9885	0.0000	84,295.4274	84,295.4274	10.2920	0.0000	84,552.7273
Maximum	32.2978	322.6368	232.2581	0.8261	111.5102	9.7684	117.8029	27.1471	9.1990	32.9885	0.0000	84,295.4274	84,295.4274	10.2920	0.0000	84,552.7273

**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					
2020	15.9696	152.9594	256.8585	0.8261	107.9076	1.0357	108.7307	26.6016	1.0043	27.4011	0.0000	84,295.4273	84,295.4273	10.2920	0.0000	84,552.7273
Maximum	19.9420	152.9594	256.8585	0.8261	107.9076	1.0357	108.7307	26.6016	1.0043	27.4011	0.0000	84,295.4273	84,295.4273	10.2920	0.0000	84,552.7273
Percent Reduction	40.88	50.21	-8.22	0.00	5.64	88.95	14.49	6.24	88.69	31.16	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
2	Demo/Grade/Piles/Foundation Overlap	Grading	1/17/2020	5/18/2020	5	87	

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo/Grade/Piles/Foundation Overlap	Aerial Lifts	4	8.00	63	0.31
Demo/Grade/Piles/Foundation Overlap	Air Compressors	6	8.00	78	0.48
Demo/Grade/Piles/Foundation Overlap	Bore/Drill Rigs	2	8.00	221	0.50
Demo/Grade/Piles/Foundation Overlap	Cranes	4	8.00	231	0.29
Demo/Grade/Piles/Foundation Overlap	Excavators	3	8.00	158	0.38
Demo/Grade/Piles/Foundation Overlap	Forklifts	5	8.00	89	0.20
Demo/Grade/Piles/Foundation Overlap	Generator Sets	0	8.00	84	0.74
Demo/Grade/Piles/Foundation Overlap	Graders	0	8.00	187	0.41
Demo/Grade/Piles/Foundation Overlap	Pumps	5	8.00	84	0.74
Demo/Grade/Piles/Foundation Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Grade/Piles/Foundation Overlap	Rubber Tired Loaders	13	8.00	203	0.36
Demo/Grade/Piles/Foundation Overlap	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Welders	6	8.00	46	0.45

**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
Demo/Grade/Piles/Foundation Overlap	63	1,660.00	190.00	9,135.00	14.70	6.90	80.00	LD_Mix	HHDT	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

### 3.3 Demo/Grade/Piles/Foundation Overlap - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					12.3107	0.0000	12.3107	6.6608	0.0000	6.6608			0.0000				0.0000
Off-Road	19.8333	192.8102	135.9308	0.2824		9.1716	9.1716		8.6334	8.6334		26,989.1393	26,989.1393	7.1352			27,167.5194
<b>Total</b>	<b>19.8333</b>	<b>192.8102</b>	<b>135.9308</b>	<b>0.2824</b>	<b>12.3107</b>	<b>9.1716</b>	<b>21.4823</b>	<b>6.6608</b>	<b>8.6334</b>	<b>15.2943</b>		<b>26,989.1393</b>	<b>26,989.1393</b>	<b>7.1352</b>			<b>27,167.5194</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	3.1580	93.2141	23.2833	0.2967	7.3368	0.3737	7.7105	2.0105	0.3575	2.3680		32,158.2414	32,158.2414	1.9505			32,207.0029
Vendor	0.8235	30.5954	6.4762	0.0625	1.1488	0.0681	1.2168	0.3151	0.0651	0.3803		6,764.8683	6,764.8683	0.6269			6,780.5410
Worker	8.4830	6.0170	66.5678	0.1846	18.5549	0.1551	18.7100	4.9208	0.1429	5.0637		18,383.1784	18,383.1784	0.5794			18,397.6640
<b>Total</b>	<b>12.4644</b>	<b>129.8266</b>	<b>96.3273</b>	<b>0.5437</b>	<b>27.0405</b>	<b>0.5968</b>	<b>27.6373</b>	<b>7.2465</b>	<b>0.5655</b>	<b>7.8120</b>		<b>57,306.2880</b>	<b>57,306.2880</b>	<b>3.1568</b>			<b>57,385.2079</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					4.8012	0.0000	4.8012	2.5977	0.0000	2.5977			0.0000				0.0000
Off-Road	3.5052	23.1328	160.5312	0.2824		0.4388	0.4388		0.4388	0.4388	0.0000	26,989.1393	26,989.1393	7.1352			27,167.5194
<b>Total</b>	<b>3.5052</b>	<b>23.1328</b>	<b>160.5312</b>	<b>0.2824</b>	<b>4.8012</b>	<b>0.4388</b>	<b>5.2400</b>	<b>2.5977</b>	<b>0.4388</b>	<b>3.0365</b>	<b>0.0000</b>	<b>26,989.1393</b>	<b>26,989.1393</b>	<b>7.1352</b>			<b>27,167.5194</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	3.1580	93.2141	23.2833	0.2967	7.3368	0.3737	7.7105	2.0105	0.3575	2.3680		32,158.24 14	32,158.241 4	1.9505	32,207.00 29
Vendor	0.8235	30.5954	6.4762	0.0625	1.1488	0.0681	1.2168	0.3151	0.0651	0.3803		6,764.868 3	6,764.8683	0.6269	6,780.541 0
Worker	8.4830	6.0170	66.5678	0.1846	18.5549	0.1551	18.7100	4.9208	0.1429	5.0637		18,383.17 84	18,383.178 4	0.5794	18,397.66 40
<b>Total</b>	<b>12.4644</b>	<b>129.8266</b>	<b>96.3273</b>	<b>0.5437</b>	<b>27.0405</b>	<b>0.5968</b>	<b>27.6373</b>	<b>7.2465</b>	<b>0.5655</b>	<b>7.8120</b>		<b>57,306.28 80</b>	<b>57,306.288 0</b>	<b>3.1568</b>	<b>57,385.20 79</b>

LACMA Construction (Final EIR) - Los Angeles-South Coast County, Winter  
**LACMA Construction (Final EIR On-site Only for Localized Impacts)**  
 Los Angeles-South Coast County, Winter

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	270.00	1000sqft	6.20	270,000.00	0
Enclosed Parking with Elevator	74.00	Space	0.67	29,600.00	0
Unenclosed Parking with Elevator	186.00	Space	1.67	74,400.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11	Operational Year			2024

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

- Project Characteristics -
- Land Use -
- Construction Phase - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation - Site Specific MM
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- On-road Fugitive Dust - Site Specific

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00



tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblTripsAndVMT	VendorTripNumber	61.00	0.00
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tblTripsAndVMT	WorkerTripNumber	158.00	0.00
tblTripsAndVMT	WorkerTripNumber	75.00	0.00
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## 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					
2019	13.0349	145.0092	76.4540	0.1795	5.9060	6.4446	12.3506	0.8942	5.9671	6.8613	0.0000	17,719.9598	17,719.9598	5.2955	0.0000	17,852.3469
2020	19.8333	192.8102	135.9308	0.2824	12.3107	9.1716	21.4822	6.6608	8.6334	15.2943	0.0000	26,989.1393	26,989.1393	7.1352	0.0000	27,167.5194
2021	20.1965	81.4013	94.2490	0.1527	0.0000	4.5752	4.5752	0.0000	4.4398	4.4398	0.0000	14,264.5126	14,264.5126	2.4352	0.0000	14,325.3928
2022	19.2601	74.1406	93.6398	0.1527	0.0000	3.8989	3.8989	0.0000	3.7874	3.7874	0.0000	14,267.5754	14,267.5754	2.3919	0.0000	14,327.3721

2023	1.9965	20.0976	18.0702	0.0398	6.0851	0.9088	6.9939	3.3198	0.8361	4.1559	0.0000	3,854.0892	3,854.0892	1.2465	0.0000	3,885.2514
<b>Maximum</b>	<b>20.1965</b>	<b>192.8102</b>	<b>135.9308</b>	<b>0.2824</b>	<b>12.3107</b>	<b>9.1716</b>	<b>21.4822</b>	<b>6.6608</b>	<b>8.6334</b>	<b>15.2943</b>	<b>0.0000</b>	<b>26,989.1393</b>	<b>26,989.1393</b>	<b>7.1352</b>	<b>0.0000</b>	<b>27,167.5194</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					
2019	2.1825	9.4574	95.9849	0.1795	2.3034	0.2910	2.5944	0.3488	0.2910	0.6398	0.0000	17,719.9598	17,719.9598	5.2955	0.0000	17,852.3469
2020	3.5052	23.1328	160.5312	0.2824	4.8012	0.4388	5.2400	2.5977	0.4388	3.0365	0.0000	26,989.1393	26,989.1393	7.1352	0.0000	27,167.5194
2021	11.3747	19.6806	98.4356	0.1527	0.0000	0.2163	0.2163	0.0000	0.2163	0.2163	0.0000	14,264.5126	14,264.5126	2.4352	0.0000	14,325.3928
2022	11.3747	19.6806	98.4356	0.1527	0.0000	0.2163	0.2163	0.0000	0.2163	0.2163	0.0000	14,267.5754	14,267.5754	2.3919	0.0000	14,327.3721
2023	0.4887	3.7228	22.8262	0.0398	2.3732	0.0652	2.4384	1.2947	0.0652	1.3599	0.0000	3,854.0892	3,854.0892	1.2465	0.0000	3,885.2514
<b>Maximum</b>	<b>11.3747</b>	<b>23.1328</b>	<b>160.5312</b>	<b>0.2824</b>	<b>4.8012</b>	<b>0.4388</b>	<b>5.2400</b>	<b>2.5977</b>	<b>0.4388</b>	<b>3.0365</b>	<b>0.0000</b>	<b>26,989.1393</b>	<b>26,989.1393</b>	<b>7.1352</b>	<b>0.0000</b>	<b>27,167.5194</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>61.08</b>	<b>85.26</b>	<b>-13.83</b>	<b>0.00</b>	<b>61.00</b>	<b>95.09</b>	<b>78.29</b>	<b>61.00</b>	<b>94.81</b>	<b>84.17</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	Demo/Grade Overlap	Demolition	9/27/2019	1/16/2020	5	80	
2	Demo/Grade/Piles/Foundation Overlap	Grading	1/17/2020	5/18/2020	5	87	
3	Piles/Foundation/Superstructure	Trenching	5/19/2020	10/5/2020	5	100	
4	Piles/Foundation/Superstructure/ Building Envelope/Interior Construction	Trenching	10/6/2020	8/4/2021	5	217	
5	Architectural Coating	Architectural Coating	6/1/2021	6/9/2022	5	268	
6	Super Structure/Building Envelope/Interior/Paving/Landscape	Building Construction	8/5/2021	6/9/2022	5	221	
7	Paving/Concrete/Landscape/Cleanup	Paving	6/10/2022	8/25/2022	5	55	
8	MEP	Building Construction	8/26/2022	3/29/2023	5	154	
9	Ogden Demo/Excavation/Shoring	Grading	1/1/2023	2/28/2023	5	42	
10	Ogden Structure	Building Construction	3/1/2023	8/31/2023	5	132	
11	Ogden Cladding/Finishes	Building Construction	9/1/2023	12/31/2023	5	86	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.34

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 405,000; Non-Residential Outdoor: 135,000; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo/Grade Overlap	Air Compressors	0	6.00	78	0.48
Demo/Grade Overlap	Bore/Drill Rigs	1	8.00	221	0.50
Demo/Grade Overlap	Concrete/Industrial Saws	0	8.00	81	0.73
Demo/Grade Overlap	Cranes	3	8.00	231	0.29
Demo/Grade Overlap	Excavators	2	8.00	158	0.38
Demo/Grade Overlap	Pumps	2	8.00	84	0.74
Demo/Grade Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Grade Overlap	Rubber Tired Loaders	13	8.00	203	0.36
Demo/Grade Overlap	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Aerial Lifts	4	8.00	63	0.31
Demo/Grade/Piles/Foundation Overlap	Air Compressors	6	8.00	78	0.48
Demo/Grade/Piles/Foundation Overlap	Bore/Drill Rigs	2	8.00	221	0.50
Demo/Grade/Piles/Foundation Overlap	Cranes	4	8.00	231	0.29
Demo/Grade/Piles/Foundation Overlap	Excavators	3	8.00	158	0.38
Demo/Grade/Piles/Foundation Overlap	Forklifts	5	8.00	89	0.20
Demo/Grade/Piles/Foundation Overlap	Generator Sets	0	8.00	84	0.74
Demo/Grade/Piles/Foundation Overlap	Graders	0	8.00	187	0.41
Demo/Grade/Piles/Foundation Overlap	Pumps	5	8.00	84	0.74
Demo/Grade/Piles/Foundation Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Grade/Piles/Foundation Overlap	Rubber Tired Loaders	13	8.00	203	0.36
Demo/Grade/Piles/Foundation Overlap	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Welders	6	8.00	46	0.45
Piles/Foundation/Superstructure	Aerial Lifts	4	8.00	63	0.31
Piles/Foundation/Superstructure	Air Compressors	6	8.00	78	0.48
Piles/Foundation/Superstructure	Bore/Drill Rigs	1	8.00	221	0.50
Piles/Foundation/Superstructure	Cranes	1	8.00	231	0.29
Piles/Foundation/Superstructure	Excavators	1	8.00	158	0.38
Piles/Foundation/Superstructure	Forklifts	5	8.00	89	0.20
Piles/Foundation/Superstructure	Pumps	3	8.00	84	0.74
Piles/Foundation/Superstructure	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Piles/Foundation/Superstructure	Welders	6	8.00	46	0.45
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Aerial Lifts	4	8.00	63	0.31

Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Air Compressors	12	8.00	78	0.48
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Bore/Drill Rigs	1	8.00	221	0.50
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Excavators	1	8.00	158	0.38
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Forklifts	10	8.00	89	0.20
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Pumps	4	8.00	84	0.74
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Welders	9	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Architectural Coating	Pavers	0	8.00	130	0.42
Architectural Coating	Paving Equipment	0	8.00	132	0.36
Architectural Coating	Rollers	0	8.00	80	0.38
Super Structure/Building Envelope/Interior/Paving/Landscape	Aerial Lifts	4	8.00	63	0.31
Super Structure/Building Envelope/Interior/Paving/Landscape	Air Compressors	12	8.00	78	0.48
Super Structure/Building Envelope/Interior/Paving/Landscape	Bore/Drill Rigs	1	8.00	221	0.50
Super Structure/Building Envelope/Interior/Paving/Landscape	Cranes	0	7.00	231	0.29
Super Structure/Building Envelope/Interior/Paving/Landscape	Excavators	1	8.00	158	0.38
Super Structure/Building Envelope/Interior/Paving/Landscape	Forklifts	10	8.00	89	0.20
Super Structure/Building Envelope/Interior/Paving/Landscape	Generator Sets	0	8.00	84	0.74
Super Structure/Building Envelope/Interior/Paving/Landscape	Pavers	1	8.00	130	0.42
Super Structure/Building Envelope/Interior/Paving/Landscape	Pumps	4	8.00	84	0.74
Super Structure/Building Envelope/Interior/Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37
Super Structure/Building Envelope/Interior/Paving/Landscape	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Super Structure/Building Envelope/Interior/Paving/Landscape	Welders	9	8.00	46	0.45
Paving/Concrete/Landscape/Cleanup	Pavers	1	8.00	130	0.42
Paving/Concrete/Landscape/Cleanup	Paving Equipment	0	8.00	132	0.36
Paving/Concrete/Landscape/Cleanup	Rollers	0	8.00	80	0.38
Paving/Concrete/Landscape/Cleanup	Skid Steer Loaders	1	8.00	65	0.37
Paving/Concrete/Landscape/Cleanup	Tractors/Loaders/Backhoes	1	8.00	97	0.37
MEP	Cranes	0	7.00	231	0.29
MEP	Forklifts	0	8.00	89	0.20
MEP	Generator Sets	0	8.00	84	0.74
MEP	Tractors/Loaders/Backhoes	0	7.00	97	0.37
MEP	Welders	0	8.00	46	0.45
Ogden Structure	Cranes	0	7.00	231	0.29
Ogden Cladding/Finishes	Cranes	0	7.00	231	0.29
Ogden Demo/Excavation/Shoring	Excavators	1	8.00	158	0.38
Ogden Structure	Forklifts	2	8.00	89	0.20
Ogden Cladding/Finishes	Forklifts	2	8.00	89	0.20
Ogden Structure	Generator Sets	0	8.00	84	0.74
Ogden Cladding/Finishes	Generator Sets	0	8.00	84	0.74
Ogden Demo/Excavation/Shoring	Graders	0	8.00	187	0.41

Ogden Demo/Excavation/Shoring	Rubber Tired Dozers	1	8.00	247	0.40
Ogden Structure	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Ogden Cladding/Finishes	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Ogden Demo/Excavation/Shoring	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Ogden Structure	Welders	1	8.00	46	0.45
Ogden Cladding/Finishes	Welders	1	8.00	46	0.45
Ogden Demo/Excavation/Shoring	Bore/Drill Rigs	1	8.00	221	0.50
Ogden Demo/Excavation/Shoring	Cranes	1	8.00	231	0.29
Ogden Demo/Excavation/Shoring	Forklifts	1	8.00	89	0.20
Ogden Structure	Pumps	1	8.00	84	0.74
Ogden Cladding/Finishes	Aerial Lifts	1	8.00	63	0.31
Ogden Cladding/Finishes	Air Compressors	1	8.00	78	0.48
Ogden Cladding/Finishes	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
Demo/Grade Overlap	33	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demo/Grade/Piles/Foundation Overlap	63	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
Piles/Foundation/Support Structure	30	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
Piles/Foundation/Support Structure/Building	44	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Exterior/Interior Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Super Structure/Building	47	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving/Concrete/Landscape/Cleanup	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
MEP	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ogden Structure	6	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ogden Cladding/Finishes	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ogden Demo/Excavation/Shoring	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

### 3.2 Demo/Grade Overlap - 2019

#### 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					5.9060	0.0000	5.9060	0.8942	0.0000	0.8942			0.0000			0.0000
Off-Road	13.0349	145.0092	76.4540	0.1795		6.4446	6.4446		5.9671	5.9671		17,719.9598	17,719.9598	5.2955		17,852.3469
<b>Total</b>	<b>13.0349</b>	<b>145.0092</b>	<b>76.4540</b>	<b>0.1795</b>	<b>5.9060</b>	<b>6.4446</b>	<b>12.3506</b>	<b>0.8942</b>	<b>5.9671</b>	<b>6.8613</b>		<b>17,719.9598</b>	<b>17,719.9598</b>	<b>5.2955</b>		<b>17,852.3469</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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					2.3034	0.0000	2.3034	0.3488	0.0000	0.3488			0.0000			0.0000
Off-Road	2.1825	9.4574	95.9849	0.1795		0.2910	0.2910		0.2910	0.2910	0.0000	17,719.9598	17,719.9598	5.2955		17,852.3469
<b>Total</b>	<b>2.1825</b>	<b>9.4574</b>	<b>95.9849</b>	<b>0.1795</b>	<b>2.3034</b>	<b>0.2910</b>	<b>2.5944</b>	<b>0.3488</b>	<b>0.2910</b>	<b>0.6398</b>	<b>0.0000</b>	<b>17,719.9598</b>	<b>17,719.9598</b>	<b>5.2955</b>		<b>17,852.3469</b>

**Mitigated Construction Off-Site**

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

**3.2 Demo/Grade Overlap - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.9060	0.0000	5.9060	0.8942	0.0000	0.8942			0.0000			0.0000
Off-Road	12.0911	132.6206	74.8083	0.1795		5.7606	5.7606		5.3329	5.3329		17,361.9309	17,361.9309	5.2868		17,494.0995
<b>Total</b>	<b>12.0911</b>	<b>132.6206</b>	<b>74.8083</b>	<b>0.1795</b>	<b>5.9060</b>	<b>5.7606</b>	<b>11.6666</b>	<b>0.8942</b>	<b>5.3329</b>	<b>6.2271</b>		<b>17,361.9309</b>	<b>17,361.9309</b>	<b>5.2868</b>		<b>17,494.0995</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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					2.3034	0.0000	2.3034	0.3488	0.0000	0.3488			0.0000			0.0000
Off-Road	2.1825	9.4574	95.9849	0.1795		0.2910	0.2910		0.2910	0.2910	0.0000	17,361.9308	17,361.9308	5.2868		17,494.0995
<b>Total</b>	<b>2.1825</b>	<b>9.4574</b>	<b>95.9849</b>	<b>0.1795</b>	<b>2.3034</b>	<b>0.2910</b>	<b>2.5944</b>	<b>0.3488</b>	<b>0.2910</b>	<b>0.6398</b>	<b>0.0000</b>	<b>17,361.9308</b>	<b>17,361.9308</b>	<b>5.2868</b>		<b>17,494.0995</b>

**Mitigated Construction Off-Site**

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

**3.3 Demo/Grade/Piles/Foundation Overlap - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.3107	0.0000	12.3107	6.6608	0.0000	6.6608			0.0000			0.0000
Off-Road	19.8333	192.8102	135.9308	0.2824		9.1716	9.1716		8.6334	8.6334		26,989.1393	26,989.1393	7.1352		27,167.5194
<b>Total</b>	<b>19.8333</b>	<b>192.8102</b>	<b>135.9308</b>	<b>0.2824</b>	<b>12.3107</b>	<b>9.1716</b>	<b>21.4822</b>	<b>6.6608</b>	<b>8.6334</b>	<b>15.2943</b>		<b>26,989.1393</b>	<b>26,989.1393</b>	<b>7.1352</b>		<b>27,167.5194</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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					4.8012	0.0000	4.8012	2.5977	0.0000	2.5977			0.0000			0.0000
Off-Road	3.5052	23.1328	160.5312	0.2824		0.4388	0.4388		0.4388	0.4388	0.0000	26,989.1393	26,989.1393	7.1352		27,167.5194
<b>Total</b>	<b>3.5052</b>	<b>23.1328</b>	<b>160.5312</b>	<b>0.2824</b>	<b>4.8012</b>	<b>0.4388</b>	<b>5.2400</b>	<b>2.5977</b>	<b>0.4388</b>	<b>3.0365</b>	<b>0.0000</b>	<b>26,989.1393</b>	<b>26,989.1393</b>	<b>7.1352</b>		<b>27,167.5194</b>

**Mitigated Construction Off-Site**

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

**3.4 Piles/Foundation/Superstructure - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.7423	60.1897	61.1225	0.1029		3.4110	3.4110		3.3006	3.3006		9,627.2085	9,627.2085	1.8485		9,673.4199
<b>Total</b>	<b>7.7423</b>	<b>60.1897</b>	<b>61.1225</b>	<b>0.1029</b>		<b>3.4110</b>	<b>3.4110</b>		<b>3.3006</b>	<b>3.3006</b>		<b>9,627.2085</b>	<b>9,627.2085</b>	<b>1.8485</b>		<b>9,673.4199</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	1.3227	13.6754	64.5463	0.1029		0.1478	0.1478		0.1478	0.1478	0.0000	9,627.2085	9,627.2085	1.8485		9,673.4199
<b>Total</b>	<b>1.3227</b>	<b>13.6754</b>	<b>64.5463</b>	<b>0.1029</b>		<b>0.1478</b>	<b>0.1478</b>		<b>0.1478</b>	<b>0.1478</b>	<b>0.0000</b>	<b>9,627.2085</b>	<b>9,627.2085</b>	<b>1.8485</b>		<b>9,673.4199</b>

**Mitigated Construction Off-Site**

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

**3.5 Piles/Foundation/Superstructure/Building Envelope/Interior**

**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	11.3958	82.9994	88.6234	0.1427		5.0274	5.0274		4.8961	4.8961		13,305.6251	13,305.6251	2.2107		13,360.8931
<b>Total</b>	<b>11.3958</b>	<b>82.9994</b>	<b>88.6234</b>	<b>0.1427</b>		<b>5.0274</b>	<b>5.0274</b>		<b>4.8961</b>	<b>4.8961</b>		<b>13,305.6251</b>	<b>13,305.6251</b>	<b>2.2107</b>		<b>13,360.8931</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	1.7810	18.1034	90.9611	0.1427		0.2002	0.2002		0.2002	0.2002	0.0000	13,305.6251	13,305.6251	2.2107		13,360.8931
<b>Total</b>	<b>1.7810</b>	<b>18.1034</b>	<b>90.9611</b>	<b>0.1427</b>		<b>0.2002</b>	<b>0.2002</b>		<b>0.2002</b>	<b>0.2002</b>	<b>0.0000</b>	<b>13,305.6251</b>	<b>13,305.6251</b>	<b>2.2107</b>		<b>13,360.8931</b>

**Mitigated Construction Off-Site**

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

**3.5 Piles/Foundation/Superstructure/Building Envelope/Interior**

**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	10.2404	75.9069	87.6940	0.1428		4.2972	4.2972		4.1840	4.1840		13,308.3533	13,308.3533	2.1260		13,361.5025
<b>Total</b>	<b>10.2404</b>	<b>75.9069</b>	<b>87.6940</b>	<b>0.1428</b>		<b>4.2972</b>	<b>4.2972</b>		<b>4.1840</b>	<b>4.1840</b>		<b>13,308.3533</b>	<b>13,308.3533</b>	<b>2.1260</b>		<b>13,361.5025</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	1.7810	18.1034	90.9611	0.1428		0.2002	0.2002		0.2002	0.2002	0.0000	13,308.3533	13,308.3533	2.1260		13,361.5025
<b>Total</b>	<b>1.7810</b>	<b>18.1034</b>	<b>90.9611</b>	<b>0.1428</b>		<b>0.2002</b>	<b>0.2002</b>		<b>0.2002</b>	<b>0.2002</b>	<b>0.0000</b>	<b>13,308.3533</b>	<b>13,308.3533</b>	<b>2.1260</b>		<b>13,361.5025</b>

**Mitigated Construction Off-Site**

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

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.4471					0.0000	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	0.0000	0.0000		0.0000
<b>Total</b>	<b>9.4471</b>	<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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	9.4471					0.0000	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	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>9.4471</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.4471					0.0000	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	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>9.4471</b>	<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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	9.4471					0.0000	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	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>9.4471</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

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

**3.7 Super Structure/Building**

**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	10.7494	81.4013	94.2490	0.1527		4.5752	4.5752		4.4398	4.4398		14,264.5126	14,264.5126	2.4352		14,325.3928
<b>Total</b>	<b>10.7494</b>	<b>81.4013</b>	<b>94.2490</b>	<b>0.1527</b>		<b>4.5752</b>	<b>4.5752</b>		<b>4.4398</b>	<b>4.4398</b>		<b>14,264.5126</b>	<b>14,264.5126</b>	<b>2.4352</b>		<b>14,325.3928</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	1.9276	19.6806	98.4356	0.1527		0.2163	0.2163		0.2163	0.2163	0.0000	14,264.5126	14,264.5126	2.4352		14,325.3928
<b>Total</b>	<b>1.9276</b>	<b>19.6806</b>	<b>98.4356</b>	<b>0.1527</b>		<b>0.2163</b>	<b>0.2163</b>		<b>0.2163</b>	<b>0.2163</b>	<b>0.0000</b>	<b>14,264.5126</b>	<b>14,264.5126</b>	<b>2.4352</b>		<b>14,325.3928</b>

**Mitigated Construction Off-Site**

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

**3.7 Super Structure/Building**

**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	9.8130	74.1406	93.6398	0.1527		3.8989	3.8989		3.7874	3.7874		14,267.5754	14,267.5754	2.3919		14,327.3721
<b>Total</b>	<b>9.8130</b>	<b>74.1406</b>	<b>93.6398</b>	<b>0.1527</b>		<b>3.8989</b>	<b>3.8989</b>		<b>3.7874</b>	<b>3.7874</b>		<b>14,267.5754</b>	<b>14,267.5754</b>	<b>2.3919</b>		<b>14,327.3721</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	1.9276	19.6806	98.4356	0.1527		0.2163	0.2163		0.2163	0.2163	0.0000	14,267.5754	14,267.5754	2.3919		14,327.3721
<b>Total</b>	<b>1.9276</b>	<b>19.6806</b>	<b>98.4356</b>	<b>0.1527</b>		<b>0.2163</b>	<b>0.2163</b>		<b>0.2163</b>	<b>0.2163</b>	<b>0.0000</b>	<b>14,267.5754</b>	<b>14,267.5754</b>	<b>2.3919</b>		<b>14,327.3721</b>

**Mitigated Construction Off-Site**

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

**3.8 Paving/Concrete/Landscape/Cleanup - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4412	4.7031	6.5091	9.8800e-003		0.2244	0.2244		0.2064	0.2064		956.8881	956.8881	0.3095		964.6251
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4412</b>	<b>4.7031</b>	<b>6.5091</b>	<b>9.8800e-003</b>		<b>0.2244</b>	<b>0.2244</b>		<b>0.2064</b>	<b>0.2064</b>		<b>956.8881</b>	<b>956.8881</b>	<b>0.3095</b>		<b>964.6251</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	0.1467	1.5772	7.4745	9.8800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	956.8881	956.8881	0.3095		964.6251
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1467</b>	<b>1.5772</b>	<b>7.4745</b>	<b>9.8800e-003</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>956.8881</b>	<b>956.8881</b>	<b>0.3095</b>		<b>964.6251</b>

**Mitigated Construction Off-Site**

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

**3.9 MEP - 2022**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

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

**3.9 MEP - 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	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>

**Unmitigated Construction Off-Site**

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

**3.10 Ogden Demo/Excavation/Shoring - 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					6.0851	0.0000	6.0851	3.3198	0.0000	3.3198			0.0000			0.0000
Off-Road	1.9965	20.0976	18.0702	0.0398		0.9088	0.9088		0.8361	0.8361		3,854.0892	3,854.0892	1.2465		3,885.2514
<b>Total</b>	<b>1.9965</b>	<b>20.0976</b>	<b>18.0702</b>	<b>0.0398</b>	<b>6.0851</b>	<b>0.9088</b>	<b>6.9939</b>	<b>3.3198</b>	<b>0.8361</b>	<b>4.1559</b>		<b>3,854.0892</b>	<b>3,854.0892</b>	<b>1.2465</b>		<b>3,885.2514</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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					2.3732	0.0000	2.3732	1.2947	0.0000	1.2947			0.0000			0.0000
Off-Road	0.4887	2.1176	22.8262	0.0398		0.0652	0.0652		0.0652	0.0652	0.0000	3,854.0892	3,854.0892	1.2465		3,885.2514
<b>Total</b>	<b>0.4887</b>	<b>2.1176</b>	<b>22.8262</b>	<b>0.0398</b>	<b>2.3732</b>	<b>0.0652</b>	<b>2.4384</b>	<b>1.2947</b>	<b>0.0652</b>	<b>1.3599</b>	<b>0.0000</b>	<b>3,854.0892</b>	<b>3,854.0892</b>	<b>1.2465</b>		<b>3,885.2514</b>

**Mitigated Construction Off-Site**

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

**3.11 Ogden 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	1.0522	8.7802	11.5976	0.0176		0.4413	0.4413		0.4212	0.4212		1,654.3328	1,654.3328	0.3176		1,662.2723
<b>Total</b>	<b>1.0522</b>	<b>8.7802</b>	<b>11.5976</b>	<b>0.0176</b>		<b>0.4413</b>	<b>0.4413</b>		<b>0.4212</b>	<b>0.4212</b>		<b>1,654.3328</b>	<b>1,654.3328</b>	<b>0.3176</b>		<b>1,662.2723</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	0.2137	1.7403	11.9750	0.0176		0.0256	0.0256		0.0256	0.0256	0.0000	1,654.3328	1,654.3328	0.3176		1,662.2723
<b>Total</b>	<b>0.2137</b>	<b>1.7403</b>	<b>11.9750</b>	<b>0.0176</b>		<b>0.0256</b>	<b>0.0256</b>		<b>0.0256</b>	<b>0.0256</b>	<b>0.0000</b>	<b>1,654.3328</b>	<b>1,654.3328</b>	<b>0.3176</b>		<b>1,662.2723</b>

**Mitigated Construction Off-Site**

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

**3.12 Ogden Cladding/Finishes - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0792	9.1560	12.7526	0.0188		0.4391	0.4391		0.4160	0.4160		1,767.9114	1,767.9114	0.4284		1,778.6212
<b>Total</b>	<b>1.0792</b>	<b>9.1560</b>	<b>12.7526</b>	<b>0.0188</b>		<b>0.4391</b>	<b>0.4391</b>		<b>0.4160</b>	<b>0.4160</b>		<b>1,767.9114</b>	<b>1,767.9114</b>	<b>0.4284</b>		<b>1,778.6212</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>	<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	0.2794	3.7228	13.1920	0.0188		0.0282	0.0282		0.0282	0.0282	0.0000	1,767.9114	1,767.9114	0.4284		1,778.6212
<b>Total</b>	<b>0.2794</b>	<b>3.7228</b>	<b>13.1920</b>	<b>0.0188</b>		<b>0.0282</b>	<b>0.0282</b>		<b>0.0282</b>	<b>0.0282</b>	<b>0.0000</b>	<b>1,767.9114</b>	<b>1,767.9114</b>	<b>0.4284</b>		<b>1,778.6212</b>

**Mitigated Construction Off-Site**

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

LACMA No Project - Los Angeles-South Coast County, Winter

**LACMA - Existing (2016)**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	387.50	1000sqft	8.90	387,500.00	0
Parking Lot	260.00	Space	2.34	104,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2016
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1140	<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 - 20% RPS
- Land Use - SP
- Construction Phase - Site Specific
- Off-road Equipment -
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Demolition -
- Grading -
- Vehicle Trips - Site Specific
- Energy Use - Correction for Parking Structure Section 120.6 Mandatory Requirements for Enclosed Parking Garages.

Construction Off-road Equipment Mitigation - Site Specific

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1140
tblProjectCharacteristics	OperationalYear	2018	2016
tblTripsAndVMT	HaulingTripNumber	2,183.00	13,680.00
tblVehicleTrips	ST_TR	46.55	8.21
tblVehicleTrips	SU_TR	25.49	8.21
tblVehicleTrips	WD_TR	56.24	6.00

## 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	8.7080	6.5000e-004	0.0678	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004						0.1517
Energy	0.2267	2.0608	1.7311	0.0124		0.1566	0.1566		0.1566	0.1566						2,487.7015
Mobile	8.7190	35.5641	104.6159	0.2349	17.0911	0.3815	17.4726	4.5768	0.3605	4.9373						23,813.7550
Stationary	1.2324	5.5114	3.1425	5.9200e-003		0.1813	0.1813		0.1813	0.1813						632.6849
<b>Total</b>	<b>18.8862</b>	<b>43.1370</b>	<b>109.5572</b>	<b>0.2531</b>	<b>17.0911</b>	<b>0.7197</b>	<b>17.8107</b>	<b>4.5768</b>	<b>0.6986</b>	<b>5.2754</b>						<b>26,934.2931</b>





#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	2,325.00	3,181.38	3181.38	6,487,631	3,407,705
Parking Lot	0.00	0.00	0.00		
Total	2,325.00	3,181.38	3,181.38	6,487,631	3,407,705

#### 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
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
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
Library	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Parking Lot	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994

## 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	0.2267	2.0608	1.7311	0.0124		0.1566	0.1566		0.1566	0.1566							2,487.7015
NaturalGas Unmitigated	0.2267	2.0608	1.7311	0.0124		0.1566	0.1566		0.1566	0.1566							2,487.7015

### 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					
Library	21020.5	0.2267	2.0608	1.7311	0.0124		0.1566	0.1566		0.1566	0.1566						2,487.7015
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.2267</b>	<b>2.0608</b>	<b>1.7311</b>	<b>0.0124</b>		<b>0.1566</b>	<b>0.1566</b>		<b>0.1566</b>	<b>0.1566</b>						<b>2,487.7015</b>





## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	12	143	0.73	Diesel
Emergency Generator	1	0	12	235	0.73	Diesel
Emergency Generator	2	0	12	85	0.73	Diesel
Emergency Generator	1	0.5	12	1502	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 (100-175 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Emergency Generator - Diesel (175-200 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Emergency Generator - Diesel (25-100 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Emergency Generator - Diesel (75-100 HP)	1.2324	5.5114	3.1425	5.9200e-003		0.1813	0.1813		0.1813	0.1813						632.6849
<b>Total</b>	<b>1.2324</b>	<b>5.5114</b>	<b>3.1425</b>	<b>5.9200e-003</b>		<b>0.1813</b>	<b>0.1813</b>		<b>0.1813</b>	<b>0.1813</b>						<b>632.6849</b>

## 11.0 Vegetation

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LACMA No Project - Los Angeles-South Coast County, Winter

**LACMA Baseline Buildout**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	387.50	1000sqft	8.90	387,500.00	0
Parking Lot	260.00	Space	2.34	104,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	840	<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 - 33% RPS
- Land Use - SP
- Construction Phase - Site Specific
- Off-road Equipment -
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Demolition -
- Grading -
- Vehicle Trips - Site Specific
- Energy Use - Correction for Parking Structure Section 120.6 Mandatory Requirements for Enclosed Parking Garages.



Construction Off-road Equipment Mitigation - Site Specific

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblProjectCharacteristics	OperationalYear	2018	2023
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	143.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,502.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	235.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	85.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	2,183.00	13,680.00
tblVehicleTrips	ST_TR	46.55	9.66
tblVehicleTrips	SU_TR	25.49	9.66
tblVehicleTrips	WD_TR	56.24	7.06



Total	14.2439	23.5658	38.8356	0.1212	8.1369	0.4242	8.5611	2.1775	0.4181	2.5956							13,645.95 48
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	ROG	NOx	CO	SO2	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	7.73	21.42	43.02	51.45	59.51	18.24	58.47	59.51	17.40	55.89	0.00	0.00	0.00	0.00	0.00	48.96

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.0773	15.9930	33.8959	0.1029	8.1369	0.0861	8.2229	2.1775	0.0800	2.2575						10,525.41 74
Unmitigated	5.2703	22.4167	63.2214	0.2314	20.0959	0.1807	20.2766	5.3778	0.1681	5.5458						23,615.45 93

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	2,735.75	3,743.25	3,743.25	7,633,658	3,090,894
Parking Lot	0.00	0.00	0.00		
Total	2,735.75	3,743.25	3,743.25	7,633,658	3,090,894

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
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
Library	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Parking Lot	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

### 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	0.2267	2.0608	1.7311	0.0124		0.1566	0.1566		0.1566	0.1566						2,487.7015
NaturalGas Unmitigated	0.2267	2.0608	1.7311	0.0124		0.1566	0.1566		0.1566	0.1566						2,487.7015

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Library	21020.5	0.2267	2.0608	1.7311	0.0124		0.1566	0.1566		0.1566	0.1566						2,487.7015
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.2267</b>	<b>2.0608</b>	<b>1.7311</b>	<b>0.0124</b>		<b>0.1566</b>	<b>0.1566</b>		<b>0.1566</b>	<b>0.1566</b>						<b>2,487.7015</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Library	21.0205	0.2267	2.0608	1.7311	0.0124		0.1566	0.1566		0.1566	0.1566						2,487.7015
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.2267</b>	<b>2.0608</b>	<b>1.7311</b>	<b>0.0124</b>		<b>0.1566</b>	<b>0.1566</b>		<b>0.1566</b>	<b>0.1566</b>						<b>2,487.7015</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	8.7075	6.0000e-004	0.0661	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004						0.1510
Unmitigated	8.7075	6.0000e-004	0.0661	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004						0.1510

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9921					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	7.7093					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	6.1200e-003	6.0000e-004	0.0661	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004						0.1510
<b>Total</b>	<b>8.7075</b>	<b>6.0000e-004</b>	<b>0.0661</b>	<b>0.0000</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>						<b>0.1510</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9921					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	7.7093					0.0000	0.0000		0.0000	0.0000						0.0000

Landscaping	6.1200e-003	6.0000e-004	0.0661	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004						0.1510
<b>Total</b>	<b>8.7075</b>	<b>6.0000e-004</b>	<b>0.0661</b>	<b>0.0000</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>						<b>0.1510</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

### Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	12	143	0.73	Diesel
Emergency Generator	1	0	12	235	0.73	Diesel
Emergency Generator	2	0	12	85	0.73	Diesel
Emergency Generator	1	0.5	12	1502	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

LACMA - Los Angeles-South Coast County, Winter

**LACMA-Project Operation (\*\*No Changes from Draft EIR\*\*)**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	368.30	1000sqft	8.46	368,300.00	0
Enclosed Parking with Elevator	74.00	Space	0.67	29,600.00	0
Unenclosed Parking with Elevator	186.00	Space	1.67	74,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	840	<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 - 33% RPS
- Land Use - SP
- Trips and VMT - Site Specific
- Vehicle Trips - Site Specific
- Energy Use - Corection for Compliance with 2016 Title 24.
- Mobile Land Use Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -
- Stationary Sources - Emergency Generators and Fire Pumps -
- Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.63	2.05
tblEnergyUse	LightingElect	2.63	2.05
tblEnergyUse	T24E	3.92	0.58
tblEnergyUse	T24E	2.36	2.24
tblFleetMix	FleetMixLandUseSubType	Library	Enclosed Parking with Elevator
tblFleetMix	FleetMixLandUseSubType	Enclosed Parking with Elevator	Library
tblGrading	MaterialExported	0.00	127,600.00
tblGrading	MaterialExported	0.00	23,400.00
tblGrading	MaterialImported	0.00	37,400.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblProjectCharacteristics	OperationalYear	2018	2023
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblVehicleTrips	ST_TR	46.55	12.24



tblVehicleTrips	SU_TR	25.49	12.24
tblVehicleTrips	WD_TR	56.24	9.25

## 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	8.2784	5.8000e-004	0.0641	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004							0.1465
Energy	0.1976	1.7965	1.5091	0.0108		0.1365	0.1365		0.1365	0.1365							2,168.5974
Mobile	6.3471	26.9964	76.1374	0.2786	24.2014	0.2176	24.4190	6.4764	0.2024	6.6788							28,440.0726
Stationary	0.1821	0.6474	3.3663	6.3400e-003		0.0259	0.0259		0.0259	0.0259							677.7564
<b>Total</b>	<b>15.0052</b>	<b>29.4408</b>	<b>81.0769</b>	<b>0.2957</b>	<b>24.2014</b>	<b>0.3803</b>	<b>24.5817</b>	<b>6.4764</b>	<b>0.3650</b>	<b>6.8415</b>							<b>31,286.5728</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	8.2784	5.8000e-004	0.0641	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004							0.1465
Energy	0.1752	1.5931	1.3382	9.5600e-003		0.1211	0.1211		0.1211	0.1211							1,923.0181
Mobile	4.8982	19.1957	40.5260	0.1226	9.6790	0.1027	9.7817	2.5902	0.0954	2.6856							12,544.1259
Stationary	0.1821	0.6474	3.3663	6.3400e-003		0.0259	0.0259		0.0259	0.0259							677.7564
<b>Total</b>	<b>13.5340</b>	<b>21.4367</b>	<b>45.2946</b>	<b>0.1385</b>	<b>9.6790</b>	<b>0.2499</b>	<b>9.9289</b>	<b>2.5902</b>	<b>0.2426</b>	<b>2.8328</b>							<b>15,145.0468</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>9.80</b>	<b>27.19</b>	<b>44.13</b>	<b>53.16</b>	<b>60.01</b>	<b>34.29</b>	<b>59.61</b>	<b>60.01</b>	<b>33.54</b>	<b>58.59</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>51.59</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.8982	19.1957	40.5260	0.1226	9.6790	0.1027	9.7817	2.5902	0.0954	2.6856							12,544.1259
Unmitigated	6.3471	26.9964	76.1374	0.2786	24.2014	0.2176	24.4190	6.4764	0.2024	6.6788							28,440.0726

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Library	3,406.78	4,507.99	4507.99	9,395,387	3,757,541
Unenclosed Parking with Elevator	0.00	0.00	0.00		
<b>Total</b>	<b>3,406.78</b>	<b>4,507.99</b>	<b>4,507.99</b>	<b>9,395,387</b>	<b>3,757,541</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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Unenclosed Parking with	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
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Library	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unenclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

#### 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	0.1752	1.5931	1.3382	9.5600e-003		0.1211	0.1211		0.1211	0.1211							1,923.0181
NaturalGas Unmitigated	0.1976	1.7965	1.5091	0.0108		0.1365	0.1365		0.1365	0.1365							2,168.5974

#### 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Library	18324.2	0.1976	1.7965	1.5091	0.0108		0.1365	0.1365		0.1365	0.1365						2,168.5974
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.1976</b>	<b>1.7965</b>	<b>1.5091</b>	<b>0.0108</b>		<b>0.1365</b>	<b>0.1365</b>		<b>0.1365</b>	<b>0.1365</b>						<b>2,168.5974</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Library	16.2491	0.1752	1.5931	1.3382	9.5600e-003		0.1211	0.1211		0.1211	0.1211						1,923.0181
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.1752</b>	<b>1.5931</b>	<b>1.3382</b>	<b>9.5600e-003</b>		<b>0.1211</b>	<b>0.1211</b>		<b>0.1211</b>	<b>0.1211</b>						<b>1,923.0181</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	8.2784	5.8000e-004	0.0641	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004						0.1465
Unmitigated	8.2784	5.8000e-004	0.0641	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004						0.1465

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9433					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	7.3292					0.0000	0.0000		0.0000	0.0000						0.0000



Total	0.1821	0.6474	3.3663	6.3400e-003		0.0259	0.0259		0.0259	0.0259							677.7564
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## 11.0 Vegetation

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# Greenhouse Gas Worksheets

- Summary of Emissions (\*\*Updated to Reflect Revised Construction Schedule\*\*)
- CalEEMod Output Files
  - GHG Construction (\*\*Updated to Reflect Revised Construction Schedule\*\*)
  - GHG Existing (2016) (\*\*No Changes from Draft EIR\*\*)
  - GHG Baseline (\*\*No Changes from Draft EIR\*\*)
  - GHG Buildout (\*\*No Changes from Draft EIR\*\*)
  - GHG Buildout (without PDFs) (\*\*No Changes from Draft EIR\*\*)

# **LACMA Building for the Permanent Collection Project**

Draft EIR

August 2018

- Summary of Emissions (\*\*Updated to Reflect Revised Construction Schedule\*\*)

**Summary of GHG Emissions (\*\*Changes only to Construction Emissions\*\*)**

Construction

2019	1,266
2020	5,210
2021	4,169
2022	2,166
2023	597

Total	13,408
Amortized over 30 years	447

Operation

	Existing	No Project	NIERM	Project			
Area	0	0	0	0	0%	(0)	0%
Energy	2,978	2,304	2,252	1,808	20%	(496)	43%
Mobile	1,782	1,430	3,933	1,742	56%	312	41%
Stationary	9	9	7	7	0%	(2)	0%
Waste	90	90	85	85	0%	(4)	2%
Water	208	157	150	120	20%	(38)	3%
Construction			447	447	0%	447	11%
<b>Total</b>	<b>5,066</b>	<b>3,990</b>	<b>6,428</b>	<b>4,209</b>	<b>35%</b>	<b>218</b>	



# LACMA Building for the Permanent Collection Project

Draft EIR

August 2018

- CalEEMod Output Files
  - GHG Construction (\*\*Updated to Reflect Revised Construction Schedule\*\*)
  - GHG Existing (2016) (\*\*No Changes from Draft EIR\*\*)
  - GHG Baseline (\*\*No Changes from Draft EIR\*\*)
  - GHG Buildout (\*\*No Changes from Draft EIR\*\*)
  - GHG Buildout (without PDFs) (\*\*No Changes from Draft EIR\*\*)

LACMA Construction (Final EIR) - Los Angeles-South Coast County, Annual

**LACMA Construction (Final EIR for GHG Analysis)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	270.00	1000sqft	6.20	270,000.00	0
Enclosed Parking with Elevator	74.00	Space	0.67	29,600.00	0
Unenclosed Parking with Elevator	186.00	Space	1.67	74,400.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2024

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

Project Characteristics -

Land Use -

Construction Phase - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site Specific

On-road Fugitive Dust -

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Site Specific MM

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	230.00	221.00
tblConstructionPhase	NumDays	230.00	154.00
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tblConstructionPhase	NumDays	20.00	87.00
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tblGrading	MaterialExported	0.00	155,000.00
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tblGrading	MaterialImported	0.00	50,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
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tblTripsAndVMT	HaulingTripNumber	25,625.00	5,157.00
tblTripsAndVMT	HaulingTripNumber	2,925.00	1,463.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	61.00	22.00
tblTripsAndVMT	VendorTripNumber	61.00	9.00
tblTripsAndVMT	VendorTripNumber	0.00	95.00
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tblTripsAndVMT	VendorTripNumber	0.00	147.00
tblTripsAndVMT	VendorTripNumber	61.00	147.00
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tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	83.00	200.00
tblTripsAndVMT	WorkerTripNumber	157.00	66.00
tblTripsAndVMT	WorkerTripNumber	157.00	125.00
tblTripsAndVMT	WorkerTripNumber	158.00	1,660.00
tblTripsAndVMT	WorkerTripNumber	75.00	1,400.00
tblTripsAndVMT	WorkerTripNumber	110.00	1,600.00
tblTripsAndVMT	WorkerTripNumber	31.00	0.00
tblTripsAndVMT	WorkerTripNumber	157.00	1,600.00
tblTripsAndVMT	WorkerTripNumber	8.00	1,000.00
tblTripsAndVMT	WorkerTripNumber	157.00	50.00
tblTripsAndVMT	WorkerTripNumber	20.00	42.00

## 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					
2019	0.5517	7.2092	3.4313	0.0135	0.6546	0.2300	0.8846	0.1480	0.2133	0.3612	0.0000	1,261.2447	1,261.2447	0.2044	0.0000	1,266.3551

2020	2.7197	20.1907	21.2623	0.0575	3.2402	0.7966	4.0368	1.0019	0.7589	1.7607	0.0000	5,195.4064	5,195.4064	0.6026	0.0000	5,210.4718
2021	3.0490	12.7925	20.2040	0.0469	2.4089	0.5984	3.0072	0.6426	0.5808	1.2233	0.0000	4,159.6762	4,159.6762	0.3565	0.0000	4,168.5878
2022	1.6273	5.6624	9.9857	0.0243	1.3889	0.2408	1.6296	0.3703	0.2330	0.6033	0.0000	2,161.1538	2,161.1538	0.1778	0.0000	2,165.5997
2023	0.2216	1.9079	2.2774	6.5000e-003	0.3250	0.0691	0.3941	0.1228	0.0652	0.1880	0.0000	594.6600	594.6600	0.0768	0.0000	596.5803
<b>Maximum</b>	<b>3.0490</b>	<b>20.1907</b>	<b>21.2623</b>	<b>0.0575</b>	<b>3.2402</b>	<b>0.7966</b>	<b>4.0368</b>	<b>1.0019</b>	<b>0.7589</b>	<b>1.7607</b>	<b>0.0000</b>	<b>5,195.4064</b>	<b>5,195.4064</b>	<b>0.6026</b>	<b>0.0000</b>	<b>5,210.4718</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-27-2019	12-26-2019	7.3801	2.6220
2	12-27-2019	3-26-2020	9.0309	3.3589
3	3-27-2020	6-26-2020	8.6123	3.3163
4	6-27-2020	9-26-2020	7.1601	2.9726
5	9-27-2020	12-26-2020	4.3525	1.7607
6	12-27-2020	3-26-2021	3.6742	1.5296
7	3-27-2021	6-26-2021	3.7844	1.6072
8	6-27-2021	9-26-2021	4.1185	1.8602
9	9-27-2021	12-26-2021	4.1958	1.9032
10	12-27-2021	3-26-2022	3.8509	1.8323
11	3-27-2022	6-26-2022	3.2667	1.5759
12	6-27-2022	9-26-2022	0.3686	0.2953
13	9-27-2022	12-26-2022	0.0275	0.0275
14	12-27-2022	3-26-2023	0.9509	0.4671
15	3-27-2023	6-26-2023	0.3895	0.1306
16	6-27-2023	9-26-2023	0.3871	0.1436
17	9-27-2023	9-30-2023	0.0167	0.0078
		<b>Highest</b>	9.0309	3.3589

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demo/Grade Overlap	Demolition	9/27/2019	1/16/2020	5	80	
2	Demo/Grade/Piles/Foundation Overlap	Grading	1/17/2020	5/18/2020	5	87	
3	Piles/Foundation/Superstructure	Trenching	5/19/2020	10/5/2020	5	100	
4	Piles/Foundation/Superstructure/ Building Envelope/Interior Construction	Trenching	10/6/2020	8/4/2021	5	217	
5	Architectural Coating	Architectural Coating	6/1/2021	6/9/2022	5	268	
6	Super Structure/Building Envelope/Interior/Paving/Landscape	Building Construction	8/5/2021	6/9/2022	5	221	
7	Paving/Concrete/Landscape/Cleanup	Paving	6/10/2022	8/25/2022	5	55	
8	MEP	Building Construction	8/26/2022	3/29/2023	5	154	
9	Ogden Demo/Excavation/Shoring	Grading	1/1/2023	2/28/2023	5	42	
10	Ogden Structure	Building Construction	3/1/2023	8/31/2023	5	132	
11	Ogden Cladding/Finishes	Building Construction	9/1/2023	12/31/2023	5	86	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.34

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 405,000; Non-Residential Outdoor: 135,000; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo/Grade Overlap	Air Compressors	0	6.00	78	0.48
Demo/Grade Overlap	Bore/Drill Rigs	1	8.00	221	0.50
Demo/Grade Overlap	Concrete/Industrial Saws	0	8.00	81	0.73
Demo/Grade Overlap	Cranes	3	8.00	231	0.29
Demo/Grade Overlap	Excavators	2	8.00	158	0.38
Demo/Grade Overlap	Pumps	2	8.00	84	0.74
Demo/Grade Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Grade Overlap	Rubber Tired Loaders	13	8.00	203	0.36
Demo/Grade Overlap	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Aerial Lifts	4	8.00	63	0.31
Demo/Grade/Piles/Foundation Overlap	Air Compressors	6	8.00	78	0.48
Demo/Grade/Piles/Foundation Overlap	Bore/Drill Rigs	2	8.00	221	0.50
Demo/Grade/Piles/Foundation Overlap	Cranes	4	8.00	231	0.29
Demo/Grade/Piles/Foundation Overlap	Excavators	3	8.00	158	0.38
Demo/Grade/Piles/Foundation Overlap	Forklifts	5	8.00	89	0.20
Demo/Grade/Piles/Foundation Overlap	Generator Sets	0	8.00	84	0.74
Demo/Grade/Piles/Foundation Overlap	Graders	0	8.00	187	0.41
Demo/Grade/Piles/Foundation Overlap	Pumps	5	8.00	84	0.74
Demo/Grade/Piles/Foundation Overlap	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Grade/Piles/Foundation Overlap	Rubber Tired Loaders	13	8.00	203	0.36
Demo/Grade/Piles/Foundation Overlap	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Demo/Grade/Piles/Foundation Overlap	Welders	6	8.00	46	0.45
Piles/Foundation/Superstructure	Aerial Lifts	4	8.00	63	0.31
Piles/Foundation/Superstructure	Air Compressors	6	8.00	78	0.48
Piles/Foundation/Superstructure	Bore/Drill Rigs	1	8.00	221	0.50
Piles/Foundation/Superstructure	Cranes	1	8.00	231	0.29
Piles/Foundation/Superstructure	Excavators	1	8.00	158	0.38
Piles/Foundation/Superstructure	Forklifts	5	8.00	89	0.20
Piles/Foundation/Superstructure	Pumps	3	8.00	84	0.74
Piles/Foundation/Superstructure	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Piles/Foundation/Superstructure	Welders	6	8.00	46	0.45
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Aerial Lifts	4	8.00	63	0.31

Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Air Compressors	12	8.00	78	0.48
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Bore/Drill Rigs	1	8.00	221	0.50
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Excavators	1	8.00	158	0.38
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Forklifts	10	8.00	89	0.20
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Pumps	4	8.00	84	0.74
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Piles/Foundation/Superstructure/Building Envelope/Interior Construction	Welders	9	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Architectural Coating	Pavers	0	8.00	130	0.42
Architectural Coating	Paving Equipment	0	8.00	132	0.36
Architectural Coating	Rollers	0	8.00	80	0.38
Super Structure/Building Envelope/Interior/Paving/Landscape	Aerial Lifts	4	8.00	63	0.31
Super Structure/Building Envelope/Interior/Paving/Landscape	Air Compressors	12	8.00	78	0.48
Super Structure/Building Envelope/Interior/Paving/Landscape	Bore/Drill Rigs	1	8.00	221	0.50
Super Structure/Building Envelope/Interior/Paving/Landscape	Cranes	0	7.00	231	0.29
Super Structure/Building Envelope/Interior/Paving/Landscape	Excavators	1	8.00	158	0.38
Super Structure/Building Envelope/Interior/Paving/Landscape	Forklifts	10	8.00	89	0.20
Super Structure/Building Envelope/Interior/Paving/Landscape	Generator Sets	0	8.00	84	0.74
Super Structure/Building Envelope/Interior/Paving/Landscape	Pavers	1	8.00	130	0.42
Super Structure/Building Envelope/Interior/Paving/Landscape	Pumps	4	8.00	84	0.74
Super Structure/Building Envelope/Interior/Paving/Landscape	Skid Steer Loaders	1	8.00	65	0.37
Super Structure/Building Envelope/Interior/Paving/Landscape	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Super Structure/Building Envelope/Interior/Paving/Landscape	Welders	9	8.00	46	0.45
Paving/Concrete/Landscape/Cleanup	Pavers	1	8.00	130	0.42
Paving/Concrete/Landscape/Cleanup	Paving Equipment	0	8.00	132	0.36
Paving/Concrete/Landscape/Cleanup	Rollers	0	8.00	80	0.38
Paving/Concrete/Landscape/Cleanup	Skid Steer Loaders	1	8.00	65	0.37
Paving/Concrete/Landscape/Cleanup	Tractors/Loaders/Backhoes	1	8.00	97	0.37
MEP	Cranes	0	7.00	231	0.29
MEP	Forklifts	0	8.00	89	0.20
MEP	Generator Sets	0	8.00	84	0.74
MEP	Tractors/Loaders/Backhoes	0	7.00	97	0.37
MEP	Welders	0	8.00	46	0.45
Ogden Demo/Excavation/Shoring	Bore/Drill Rigs	1	8.00	221	0.50

Ogden Demo/Excavation/Shoring	Cranes	1	8.00	231	0.29
Ogden Demo/Excavation/Shoring	Excavators	1	8.00	158	0.38
Ogden Demo/Excavation/Shoring	Forklifts	1	8.00	89	0.20
Ogden Demo/Excavation/Shoring	Graders	0	8.00	187	0.41
Ogden Demo/Excavation/Shoring	Rubber Tired Dozers	1	8.00	247	0.40
Ogden Demo/Excavation/Shoring	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Ogden Structure	Cranes	0	7.00	231	0.29
Ogden Structure	Forklifts	2	8.00	89	0.20
Ogden Structure	Generator Sets	0	8.00	84	0.74
Ogden Structure	Pumps	1	8.00	84	0.74
Ogden Structure	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Ogden Structure	Welders	1	8.00	46	0.45
Ogden Cladding/Finishes	Aerial Lifts	1	8.00	63	0.31
Ogden Cladding/Finishes	Air Compressors	1	8.00	78	0.48
Ogden Cladding/Finishes	Cranes	0	7.00	231	0.29
Ogden Cladding/Finishes	Forklifts	2	8.00	89	0.20
Ogden Cladding/Finishes	Generator Sets	0	8.00	84	0.74
Ogden Cladding/Finishes	Skid Steer Loaders	1	8.00	65	0.37
Ogden Cladding/Finishes	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Ogden Cladding/Finishes	Welders	1	8.00	46	0.45

### 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
Demo/Grade Overlap	33	200.00	30.00	5,156.00	14.70	6.90	80.00	LD_Mix	HDT_Mix	HHDT
Demo/Grade/Piles/Foundation Overlap	63	1,660.00	95.00	5,157.00	14.70	6.90	80.00	LD_Mix	HHDT	HHDT
Piles/Foundation/Structure	30	1,400.00	95.00	0.00	14.70	6.90	20.00	LD_Mix	HHDT	HHDT
Piles/Foundation/Structure/Building Envelope/Interior Architectural Coating	44	1,600.00	147.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Super Structure/Building	47	1,600.00	147.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving/Concrete/Landscape/Cleanup	3	1,000.00	52.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
MEP	0	50.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ogden Demo/Excavation/Shoring	8	42.00	6.00	1,463.00	14.70	6.90	80.00	LD_Mix	HDT_Mix	HHDT
Ogden Structure	6	66.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ogden Cladding/Finishes	8	125.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT



LACMA No Project - Los Angeles-South Coast County, Annual

**LACMA - Existing (2016)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	387.50	1000sqft	8.90	387,500.00	0
Parking Lot	260.00	Space	2.34	104,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2016
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1140	<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 - 20% RPS
- Land Use - SP
- Construction Phase - Site Specific
- Off-road Equipment -
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Demolition -
- Grading -
- Vehicle Trips - Site Specific
- Energy Use - Correction for Parking Structure Section 120.6 Mandatory Requirements for Enclosed Parking Garages.

Construction Off-road Equipment Mitigation - Site Specific

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1140
tblProjectCharacteristics	OperationalYear	2018	2016
tblTripsAndVMT	HaulingTripNumber	2,183.00	13,680.00
tblVehicleTrips	ST_TR	46.55	8.21
tblVehicleTrips	SU_TR	25.49	8.21
tblVehicleTrips	WD_TR	56.24	6.00

## 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	1.5888	8.0000e-005	8.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0172
Energy	0.0414	0.3761	0.3159	2.2600e-003		0.0286	0.0286		0.0286	0.0286							2,977.5301
Mobile	1.2422	5.3276	15.5404	0.0350	2.4640	0.0557	2.5197	0.6609	0.0526	0.7136							3,221.1423
Stationary	0.0202	0.0820	0.0548	1.0000e-004		2.9700e-003	2.9700e-003		2.9700e-003	2.9700e-003							9.4004
Waste						0.0000	0.0000		0.0000	0.0000							179.4604
Water						0.0000	0.0000		0.0000	0.0000							207.5048
<b>Total</b>	<b>2.8926</b>	<b>5.7858</b>	<b>15.9196</b>	<b>0.0374</b>	<b>2.4640</b>	<b>0.0873</b>	<b>2.5513</b>	<b>0.6609</b>	<b>0.0842</b>	<b>0.7452</b>							<b>6,595.0552</b>



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9941	3.6659	9.7949	0.0194	1.2943	0.0316	1.3258	0.3472	0.0298	0.3770						1,781.8924
Unmitigated	1.2422	5.3276	15.5404	0.0350	2.4640	0.0557	2.5197	0.6609	0.0526	0.7136						3,221.1423

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	2,325.00	3,181.38	3181.38	6,487,631	3,407,705
Parking Lot	0.00	0.00	0.00		
Total	2,325.00	3,181.38	3,181.38	6,487,631	3,407,705

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
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
Library	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Parking Lot	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994

## 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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						2,565.6632
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						2,565.6632
NaturalGas Mitigated	0.0414	0.3761	0.3159	2.2600e-003		0.0286	0.0286		0.0286	0.0286						411.8669
NaturalGas Unmitigated	0.0414	0.3761	0.3159	2.2600e-003		0.0286	0.0286		0.0286	0.0286						411.8669

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	7.6725e+06	0.0414	0.3761	0.3159	2.2600e-003		0.0286	0.0286		0.0286	0.0286						411.8669
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0414</b>	<b>0.3761</b>	<b>0.3159</b>	<b>2.2600e-003</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>						<b>411.8669</b>

#### Mitigated

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

Library	7.6725e+006	0.0414	0.3761	0.3159	2.2600e-003		0.0286	0.0286		0.0286	0.0286						411.8669
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0414</b>	<b>0.3761</b>	<b>0.3159</b>	<b>2.2600e-003</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>						<b>411.8669</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	4.85925e+006				2,518.2343
Parking Lot	91520				47.4289
<b>Total</b>					<b>2,565.6632</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	4.85925e+006				2,518.2343
Parking Lot	91520				47.4289
<b>Total</b>					<b>2,565.6632</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	0.1811					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.4070					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	8.3000e-004	8.0000e-005	8.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0172
<b>Total</b>	<b>1.5888</b>	<b>8.0000e-005</b>	<b>8.4800e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>						<b>0.0172</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				207.5048
Unmitigated				207.5048

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	12.1245 / 18.9639				207.5048
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>207.5048</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	12.1245 / 18.9639				207.5048
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>207.5048</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				89.7302
Unmitigated				179.4604

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	356.85				179.4604
Parking Lot	0				0.0000
<b>Total</b>					<b>179.4604</b>

## Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	178.425				89.7302
Parking Lot	0				0.0000
<b>Total</b>					<b>89.7302</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
Emergency Generator	1	0	12	143	0.73	Diesel
Emergency Generator	1	0	12	235	0.73	Diesel
Emergency Generator	2	0	12	85	0.73	Diesel
Emergency Generator	1	0.5	12	1502	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 (100-175 HP)	1.4100e-003	3.9400e-003	5.1100e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004							0.6557
Emergency Generator - Diesel (175-200 HP)	2.3100e-003	6.4700e-003	5.9000e-003	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004							1.0776
Emergency Generator - Diesel (75-100 HP)	1.6700e-003	5.4600e-003	6.0700e-003	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004							0.7796
Emergency Generator - Diesel (75-100 HP)	0.0148	0.0661	0.0377	7.0000e-005		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003							6.8876
<b>Total</b>	<b>0.0202</b>	<b>0.0820</b>	<b>0.0548</b>	<b>1.0000e-004</b>		<b>2.9800e-003</b>	<b>2.9800e-003</b>		<b>2.9800e-003</b>	<b>2.9800e-003</b>							<b>9.4005</b>

## 11.0 Vegetation

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LACMA No Project - Los Angeles-South Coast County, Annual

**LACMA Baseline Buildout**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	387.50	1000sqft	8.90	387,500.00	0
Parking Lot	260.00	Space	2.34	104,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	840	<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 - 33% RPS
- Land Use - SP
- Construction Phase - Site Specific
- Off-road Equipment -
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Demolition -
- Grading -
- Vehicle Trips - Site Specific

Energy Use - Correction for Parking Structure Section 120.6 Mandatory Requirements for Enclosed Parking Garages.

Construction Off-road Equipment Mitigation - Site Specific

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblProjectCharacteristics	OperationalYear	2018	2023
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	143.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,502.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	235.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	85.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	2,183.00	13,680.00
tblVehicleTrips	ST_TR	46.55	9.66
tblVehicleTrips	SU_TR	25.49	9.66
tblVehicleTrips	WD_TR	56.24	7.06





Mobile	0.5774	2.3857	4.9822	0.0154	1.1731	0.0126	1.1857	0.3144	0.0117	0.3261							1,430.0053
Stationary	0.0202	0.0820	0.0548	1.0000e-004		2.9700e-003	2.9700e-003		2.9700e-003	2.9700e-003							9.4004
Waste						0.0000	0.0000		0.0000	0.0000							89.7302
Water						0.0000	0.0000		0.0000	0.0000							157.3518
<b>Total</b>	<b>2.2277</b>	<b>2.8439</b>	<b>5.3612</b>	<b>0.0178</b>	<b>1.1731</b>	<b>0.0441</b>	<b>1.2173</b>	<b>0.3144</b>	<b>0.0432</b>	<b>0.3577</b>							<b>3,990.3455</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>7.35</b>	<b>25.33</b>	<b>45.23</b>	<b>51.80</b>	<b>59.51</b>	<b>23.95</b>	<b>58.81</b>	<b>59.51</b>	<b>23.03</b>	<b>57.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>31.74</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5774	2.3857	4.9822	0.0154	1.1731	0.0126	1.1857	0.3144	0.0117	0.3261						1,430.0053
Unmitigated	0.7542	3.3505	9.4102	0.0345	2.8973	0.0265	2.9237	0.7766	0.0246	0.8012						3,195.8155

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	2,735.75	3,743.25	3743.25	7,633,658	3,090,894
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>2,735.75</b>	<b>3,743.25</b>	<b>3,743.25</b>	<b>7,633,658</b>	<b>3,090,894</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
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
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
Library	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Parking Lot	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

#### 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					



### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	4.85925e+006				1,856.9987
Parking Lot	91520				34.9751
<b>Total</b>					<b>1,891.9737</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	4.85925e+006				1,856.9987
Parking Lot	91520				34.9751
<b>Total</b>					<b>1,891.9737</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive 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	1.5888	8.0000e-005	8.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0171
Unmitigated	1.5888	8.0000e-005	8.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0171

## 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	0.1811					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.4070					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	7.7000e-004	8.0000e-005	8.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0171
<b>Total</b>	<b>1.5888</b>	<b>8.0000e-005</b>	<b>8.2600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>						<b>0.0171</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
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SubCategory	tons/yr										MT/yr				
	Architectural Coating	0.1811					0.0000	0.0000		0.0000	0.0000				
Consumer Products	1.4070					0.0000	0.0000		0.0000	0.0000					0.0000
Landscaping	7.7000e-004	8.0000e-005	8.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005					0.0171
<b>Total</b>	<b>1.5888</b>	<b>8.0000e-005</b>	<b>8.2600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>					<b>0.0171</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				157.3518
Unmitigated				157.3518

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Library	12.1245 / 18.9639			157.3518
Parking Lot	0 / 0			0.0000
<b>Total</b>				<b>157.3518</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	12.1245 / 18.9639				157.3518
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>157.3518</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				89.7302

Unmitigated				179.4604
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## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	356.85				179.4604
Parking Lot	0				0.0000
<b>Total</b>					<b>179.4604</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	178.425				89.7302
Parking Lot	0				0.0000
<b>Total</b>					<b>89.7302</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**11.0 Vegetation**

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LACMA - Los Angeles-South Coast County, Annual

**LACMA -Project Operation (\*\*No Changes to Results from Draft EIR\*\*)**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	368.30	1000sqft	8.46	368,300.00	0
Enclosed Parking with Elevator	74.00	Space	0.67	29,600.00	0
Unenclosed Parking with Elevator	186.00	Space	1.67	74,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11	<b>Operational Year</b>		2023	

**Utility Company** Los Angeles Department of Water & Power

<b>CO2 Intensity (lb/MW hr)</b>	840	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - 33% RPS

Land Use - SP

Energy Use - Corection for Compliance with 2016 Title 24.

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.63	2.05
tblEnergyUse	LightingElect	2.63	2.05
tblEnergyUse	T24E	3.92	0.58
tblEnergyUse	T24E	2.36	2.24
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblProjectCharacteristics	OperationalYear	2018	2023
tblVehicleTrips	ST_TR	46.55	12.24
tblVehicleTrips	SU_TR	25.49	12.24
tblVehicleTrips	WD_TR	56.24	9.25

**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	1.5105	7.0000e-005	8.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0166
Energy	0.0361	0.3279	0.2754	1.9700e-003		0.0249	0.0249		0.0249	0.0249							2,046.4905
Mobile	0.9282	4.1237	11.5819	0.0425	3.5659	0.0326	3.5985	0.9558	0.0303	0.9861							3,933.3598
Stationary	2.1800e-003	7.7700e-003	0.0404	8.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004							7.3782
Waste						0.0000	0.0000		0.0000	0.0000							170.5691
Water						0.0000	0.0000		0.0000	0.0000							149.5553
<b>Total</b>	<b>2.4769</b>	<b>4.4594</b>	<b>11.9057</b>	<b>0.0445</b>	<b>3.5659</b>	<b>0.0578</b>	<b>3.6237</b>	<b>0.9558</b>	<b>0.0555</b>	<b>1.0114</b>							<b>6,307.3695</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	1.5105	7.0000e-005	8.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0166
Energy	0.0320	0.2907	0.2442	1.7400e-003		0.0221	0.0221		0.0221	0.0221							1,822.0551
Mobile	0.7088	2.9264	6.0865	0.0188	1.4261	0.0153	1.4414	0.3823	0.0142	0.3965							1,741.8821
Stationary	2.1800e-003	7.7700e-003	0.0404	8.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004							7.3782
Waste						0.0000	0.0000		0.0000	0.0000							85.2846
Water						0.0000	0.0000		0.0000	0.0000							104.6887
<b>Total</b>	<b>2.2534</b>	<b>3.2250</b>	<b>6.3792</b>	<b>0.0206</b>	<b>1.4261</b>	<b>0.0378</b>	<b>1.4639</b>	<b>0.3823</b>	<b>0.0367</b>	<b>0.4189</b>							<b>3,761.3053</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>9.02</b>	<b>27.68</b>	<b>46.42</b>	<b>53.76</b>	<b>60.01</b>	<b>34.70</b>	<b>59.60</b>	<b>60.01</b>	<b>33.98</b>	<b>58.58</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>40.20</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	0.7088	2.9264	6.0865	0.0188	1.4261	0.0153	1.4414	0.3823	0.0142	0.3965							1,741.8821
Unmitigated	0.9282	4.1237	11.5819	0.0425	3.5659	0.0326	3.5985	0.9558	0.0303	0.9861							3,933.3598

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Library	3,406.78	4,507.99	4,507.99	9,395,387	3,757,541
Unenclosed Parking with Elevator	0.00	0.00	0.00		
<b>Total</b>	<b>3,406.78</b>	<b>4,507.99</b>	<b>4,507.99</b>	<b>9,395,387</b>	<b>3,757,541</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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Unenclosed Parking with Elevator	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
Enclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Library	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862
Unenclosed Parking with Elevator	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

#### 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						1,503.6779
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						1,687.4549
NaturalGas Mitigated	0.0320	0.2907	0.2442	1.7400e-003		0.0221	0.0221		0.0221	0.0221						318.3772
NaturalGas Unmitigated	0.0361	0.3279	0.2754	1.9700e-003		0.0249	0.0249		0.0249	0.0249						359.0356

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Library	6.68833e+006	0.0361	0.3279	0.2754	1.9700e-003		0.0249	0.0249		0.0249	0.0249						359.0356
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0361</b>	<b>0.3279</b>	<b>0.2754</b>	<b>1.9700e-003</b>		<b>0.0249</b>	<b>0.0249</b>		<b>0.0249</b>	<b>0.0249</b>						<b>359.0356</b>

##### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Library	5.93092e+006	0.0320	0.2907	0.2442	1.7400e-003		0.0221	0.0221		0.0221	0.0221						318.3772
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
<b>Total</b>		<b>0.0320</b>	<b>0.2907</b>	<b>0.2442</b>	<b>1.7400e-003</b>		<b>0.0221</b>	<b>0.0221</b>		<b>0.0221</b>	<b>0.0221</b>						<b>318.3772</b>

#### 5.3 Energy by Land Use - Electricity

##### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

Enclosed Parking with Elevator	83472				31.8995
Library	4.16547e+006				1,591.8666
Unenclosed Parking with	166656				63.6888
<b>Total</b>					<b>1,687.4549</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	65726.8				25.1180
Library	3.74045e+006				1,429.4427
Unenclosed Parking with	128526				49.1172
<b>Total</b>					<b>1,503.6779</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	1.5105	7.0000e-005	8.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0166
Unmitigated	1.5105	7.0000e-005	8.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0166

**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	0.1722					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.3376					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	7.4000e-004	7.0000e-005	8.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0166
<b>Total</b>	<b>1.5105</b>	<b>7.0000e-005</b>	<b>8.0200e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>						<b>0.0166</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	0.1722					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.3376					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	7.4000e-004	7.0000e-005	8.0200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0166
<b>Total</b>	<b>1.5105</b>	<b>7.0000e-005</b>	<b>8.0200e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>						<b>0.0166</b>

**7.0 Water Detail**

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				119.6442
Unmitigated				149.5553

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0				0.0000
Library	11.5237 / 18.0243				149.5553
Unenclosed Parking with	0 / 0				0.0000
<b>Total</b>					<b>149.5553</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0				0.0000
Library	8.06659 / 12.617				104.6887
Unenclosed Parking with	0 / 0				0.0000
<b>Total</b>					<b>104.6887</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				85.2846
Unmitigated				170.5691

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0				0.0000
Library	339.17				170.5691
Unenclosed Parking with	0				0.0000
<b>Total</b>					<b>170.5691</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0				0.0000
Library	169.585				85.2846
Unenclosed Parking with	0				0.0000
<b>Total</b>					<b>85.2846</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	1	0.5	12	1609	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	2.1800e-003	7.7700e-003	0.0404	8.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004							7.3782
<b>Total</b>	<b>2.1800e-003</b>	<b>7.7700e-003</b>	<b>0.0404</b>	<b>8.0000e-005</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>		<b>3.1000e-004</b>	<b>3.1000e-004</b>							<b>7.3782</b>

**11.0 Vegetation**



