

# Harbor-UCLA Medical Center

## Draft EIR

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# **Appendix B. 1**

## **Construction Emission Model Inputs**

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units	
Building 1	Hospital	55,600 sqft	
Building 2	Hospital	55,600 sqft	
Surface Parking	Unenclosed Parking	41,650 sqft	128.00 Spaces
	—		

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	CalEEMod Phase	Start Date	End Date	No. Days	Equipment	Quantity				
Demolish Buildings: N6, N7, N8, N9, N11, N12 (28,001) SF	Demolition	7/6/2016	9/15/2016	52	Concrete/Industrial Saws	2				
					Excavators	1				
					Tractors/Loaders/Backhoes	1				
					Water Trucks	1				
Building pad and underground utilities	Grading 4 vendor trips/day	9/16/2016	11/29/2016	53	Excavators	1				
					Rubber Tired Loaders	1				
					Water Trucks	1				
					Tractors/Loaders/Backhoes	3				
					Graders	1				
Surface Parking	Paving	11/30/2016	3/30/2017	87	Tractors/Loaders/Backhoes	4				
					Cement and Motor Mixers	2				
Two Modular Buildings	Building Construction	4/1/2017	8/11/2017	95	Tractors/Loaders/Backhoes	1				
					Forklifts	1				
					Welder	1				
					Water Trucks	1				
					Crane	2				
					Air Compressors	1				
					Paving	8/12/2017	11/10/2017	65	Tractors/Loaders/Backhoes	1
									Paving Equipment	2
						Trencher	1			

Demolition (CY)

Soft Demo	3,941 CY
Hard Demo	3,928 CY
Dirt Export	8,744 CY
Dirt Import	14,574 CY

Architectural Coating

CalEEMod assumes the total surface for architectural coating equals:

Nonresidential Coating Area	2 times the square footage 75% interior 25% exterior
Parking Lot Coating Area	6% of the square foot Interior

Source: SCAQMD, CEQA Air Quality Handbook, (1993) A9-124.

Non-Residential Land Uses			
Land Use	Area (sf)	Interior (sf)	Exterior (sf)
Surface Parking	41,650	2,499	10,412.50
<b>Total Non-Residential</b>		<b>2,499</b>	<b>10,413</b>

ENTER VALUES ABOVE INTO CALEEMOD

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units
Central Plant	Unrefrigerated Warehouse	58,000 sqft
SCE Service Yard	General Industrial	6,200 sqft
Central IT Building	General Office	29,200 sqft
Surface Parking	—	6,000 sqft
Utility Tunnel	General Industrial	54,720 Sqft
		24 spaces

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	CalEEMod Phase	Start Date	End Date	No. Days	Equipment	Quantity
Utility Tunnel	Grading	10/1/2018	3/30/2021	652	Concrete/Industrial Saws	1
					Excavators	1
					Rubber Tired Loaders	1
					Water Trucks	2
					Tractors/Loaders/Backhoes	5
					Graders	1
					Forklifts	1
					Air Compressors	1
					Welder	1
					Crane	1
Rubber Tired Dozers	1					
Demolish Buildings F-10, M01, T-1	Demolition	8/30/2018	3/12/2019	139	Excavators	1
					Concrete/Industrial Saws	1
					Rubber Tired Loaders	1
					Graders	1
					Water Trucks	2
					Tractors/Loaders/Backhoes	4
Central Plant, Central IT building, and Surface Parking	Building Construction	8/30/2018	3/28/2023	1194	Forklifts	1
					Crane	1
					Tractors/Loaders/Backhoes	3
					Welder	1
					Graders	1
					Air Compressors	1
	Architectural Coatings	10/1/2022	3/28/2023	127	Air Compressors	1
	Paving	12/1/2022	3/28/2023	84	Water Trucks	1
					Tractors/Loaders/Backhoes	2
					Paving Equipment	1
				Rollers	1	
				Trencher	1	
SCE Service Yard	Building Construction	8/23/2019	2/19/2020	129	Concrete/Industrial Saws	1
					Water Trucks	1
					Tractors/Loaders/Backhoes	3
					Graders	1
					Welder	1
					Cement and Mortar Mixers	1
	Paving	1/1/2020	2/19/2020	36	Cement and Mortar Mixers	1
					Trencher	1
				Paving Equipment	1	
				Rollers	1	

Demolition (CY)

Soft Demo	3,756 CY
Hard Demo	2,253 CY
Dirt Export	28,027 CY
Dirt Import	10,851 CY

Architectural Coating

Non-Residential Land Uses				
Land Use	Area (sf)	Interior (sf)	Exterior (sf)	
Central Plant	58,000	87000	29000	
SCE Service Yard	6,200	9300	3100	
Central IT Building	29,200	43800	14600	
Surface Parking	6,000	360	1,500.00	
Utility Tunnel	54,720	82080	27360	
Total Non-Residential		222,540	75,560	

ENTER VALUES ABOVE INTO CALEEMOD

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units	
Public Parking Structure	Unclosed Parking with elevator	300,700 sqft	809.00 Spaces

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	Caleemod Phase	Start Date	End Date	No. Days	Equipment	Quantity
Demolish Buildings: B-2, B-2 West, B-3, B-3 Annex, B-4, B-4 Annex, B-1, C-1, C-1 Annex, C-2, C-2 Annex, C-3, N-14, N-16, N-17, N-18, N-20, N-21)	Demolition	12/13/2017	5/30/2018	121	Concrete/Industrial Saws	2
					Excavators	1
					Rubber Tired Loaders	1
					Tractors/Loaders/Backhoes	3
					Rubber Tired Dozers	1
Water Trucks	1					
Building pad and underground utilities	Grading	6/1/2018	8/29/2018	64	Tractors/Loaders/Backhoes	3
					Rubber Tired Dozers	1
					Water Trucks	1
					Graders	1
Public Parking Structure	Building Construction (2)	2/5/2020	1/19/2021	250	Forklift	1
					Welder	1
					Crane	1
	Architectural Coatings	11/1/2020	1/19/2021	57	Air Compressors	1
	Paving	11/1/2020	1/19/2021	57	Tractors/Loaders/Backhoes	1
					Cement and Motar Mixers	1
					Roller	1
					Paving Equipment	1
					Trencher	1

Demolition (CY)

Soft Demo	11,008	CY
Hard Demo	9,206	CY
Dirt Export	23,027	CY
Dirt Import	37,067	CY

Architectural Coating

Non-Residential Land Uses				
Land Use	Area (sf)	Interior (sf)	Exterior (sf)	
Public Parking Structure	300,700	18,042	75,175	
Total Non-Residential		18,042	75,175	

ENTER VALUES ABOVE INTO CALEEMOD

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units
Outpatient Building A	Hospital	130,000 sqft
Mental Health Building	Hospital	97,500 sqft
Bridge between Out Patient A & Mental Health	Hospital	2,400 sqft
	—	

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	Caleemod Phase	Start Date	End Date	No. Days	Equipment	Quantity
Outpatient Building A Mental Health Building Bridge between Out Patient A & Mental Health	Grading	1/20/2021	4/19/2021	64	Rubber Tired Loaders	1
					Tractors/Loaders/Backhoes	1
					Water Trucks	1
	Building Construction	4/20/2021	8/30/2021	95	Forklift	1
					Tractors/Loaders/Backhoes	3
					Air Compressors	1
					Crane	2
	Building Construction (2)	9/1/2021	1/30/2022	108	Tractors/Loaders/Backhoes	2
					Air Compressors	1
					Crane	1
	Building Construction (3)	2/1/2022	6/30/2022	108	Forklift	1
					Welder	1
					Tractors/Loaders/Backhoes	3
					Air Compressors	1
	Building Construction (4)	3/1/2023	12/7/2023	202	Crane	1
					Forklift	2
					Welder	2
					Tractors/Loaders/Backhoes	2
					Air Compressors	1
Water Trucks					1	
Architectural Coatings	7/1/2023	12/7/2023	114	Air Compressors	1	
Paving	8/1/2023	12/7/2023	93	Tractors/Loaders/Backhoes	1	
				Cement and Motar Mixers	1	
				Roller	1	
				Paving Equipment	1	
				Trencher	1	

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units
Staff Parking Structure Temporary Helipad	Unenclosed Parking with elevator Other Asphalt Surface —	250,580 sqft 10,000 sqft 580.00 Spaces

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	Caleemod Phase	Start Date	End Date	No. Days	Equipment	Quantity
Demolish Buildings: D-2 Annex, D-2.5, D-3, D-3.5, D-4, D-4.5, D-5, d-5 Annex, D-5.5, D-6, D-6 Ramp Office, D-9, F-2, F-3, F-3.5, F-4, F-4.5 Trailer, F-5, F-5 Trailer, F-6, F-7, F-8, F-9, F-9 Annex, H1	Demolition	1/12/2021	11/16/2021	221	Concrete/Industrial Saws	2
					Excavators	1
					Rubber Tired Loaders	1
					Tractors/Loaders/Backhoes	3
					Rubber Tired Dozers	1
Building pad and underground utilities	Grading	6/1/2021	11/16/2021	121	Water Trucks	1
					Tractors/Loaders/Backhoes	2
					Rubber Tired Dozers	1
					Graders	1
Staff Parking Structure Temporary Helipad	Building Construction	11/17/2021	3/28/2023	355	Forklift	1
					Tractors/Loaders/Backhoes	2
					Cement and Motar Mixers	1
					Welder	1
					Crane	1
	Architectural Coatings	1/1/2023	3/28/2023	62	Air Compressors	1
Paving	1/1/2023	3/28/2023	62	Tractors/Loaders/Backhoes	1	
				Cement and Motar Mixers	1	
				Roller	1	
				Paving Equipment	1	
					Trencher	1

Demolition (CY)

Soft Demo	12,970 CY
Hard Demo	10,186 CY
Dirt Export	18,052 CY
Dirt Import	30,126 CY

Architectural Coating

Non-Residential Land Uses				
Land Use	Area (sf)	Interior (sf)	Exterior (sf)	
Staff Parking Structure	250,580	15,034.80	3,758.70	
Temporary Helipad	10,000	600	2,500	
Total Non-Residential		15,635	6,259	

ENTER VALUES ABOVE INTO CALEEMOD

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units
Patient Bed tower	Hospital	450,000 sqft
Diagnostic and Treatment Center	Hospital	505,100 sqft
	—	

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	Caleemod Phase	Start Date	End Date	No. Days	Equipment	Quantity
Patient Bed tower Diagnostic and Treatment Center	Grading	3/29/2023	10/30/2023	154	Tractors/Loaders/Backhoes	3
					Rubber Tired Dozers	1
					Water Trucks	1
					Graders	1
	Building Construction (2)	11/1/2023	11/30/2024	283	Rubber Tired Loaders	1
					Tractors/Loaders/Backhoes	8
					Forklift	2
					Welder	3
					Air Compressors	2
					Crane	2
	Building Construction (3)	12/1/2024	1/30/2026	305	Tractors/Loaders/Backhoes	2
					Welder	2
					Air Compressors	1
	Architectural Coatings	7/1/2025	1/30/2026	154	Air Compressors	1
	Paving	1/1/2027	8/16/2027	162	Tractors/Loaders/Backhoes	2
Forklift					1	
Welder					1	
Cement and Motar Mixers					1	
Roller					1	
Paving Equipment					1	
Trencher					2	

Demolition (CY)

Dirt Export 33,675 CY  
Dirt Import 38,726 CY

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units	
Renovate Existing Hospital Tower	Hospital	234,000 sqft	
Public Parking Structure	Unenclosed Parking with Elevator	551,150 sqft	1,220.00 Spaces
Two Surface Parking Lots	Surface Parking Lot	104,005	570.00 Spaces
Retail Building	Retail	35,000 sqft	
	—		

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	CalEEMod Phase	Start Date	End Date	No. Days	Equipment	Quantity
Renovate Existing Hospital Tower Public Parking Structure Two Surface Parking Lots Retail Building	Grading/Excavation	8/5/2024	4/2/2025	173	Rubber Tired Loaders	1
					Tractors/Loaders/Backhoes	3
	Building Construction	8/5/2024	4/2/2025	173	Excavator	1
					Air Compressors	2
	Building Construction (2)	4/3/2025	8/30/2025	107	Water Trucks	2
					Tractors/Loaders/Backhoes	4
	Building Construction (3)	9/1/2025	5/30/2027	455	Forklift	1
					Crane	2
	Building Construction (4)	6/1/2028	5/30/2029	260	Welder	1
					Tractors/Loaders/Backhoes	3
	Building Construction (5)	6/1/2029	9/30/2029	86	Rubber Tired Loaders	2
					Tractors/Loaders/Backhoes	3
	Building Construction (6)	10/1/2029	4/22/2030	146	Welder	1
					Crane	1
Architectural Coatings	4/1/2029	4/22/2030	276	Forklift	1	
Paving	1/1/2030	4/22/2030	80	Tractors/Loaders/Backhoes	1	
				Cement and Motar Mixers	1	
				Roller	1	
				Paving Equipment	1	
				Trencher	2	

Demolition (CY)

Soft Demo	14,277 CY
Hard Demo	161,839 CY
Dirt Export	10,675 CY
Dirt Import	73,803 CY

Architectural Coating

Non-Residential Land Uses				
Land Use	Area (sf)	Interior (sf)	Exterior (sf)	
Renovate Existing Hospital Tower	234,000	351,000	117,000	
Public Parking Structure	551,150	33,069	137,788	
Two Surface Parking Lots	104,005	6,240	26,001	
Retail Building	35,000	52,500	17,500	
<b>Total Non-Residential</b>		<b>442,809</b>	<b>298,289</b>	

ENTER VALUES ABOVE INTO CALEEMOD

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units	
Bioscience Building	Lab/ Medical Office	250,000 sqft	
Parking Structure	Unenclosed Parking with Elevator	400,000 sqft	1000 Spaces
Outpatient Building B	Medical Office	97,000 sqft	
Carson St. Access Road Associated Sitework	Other Asphalt Surface	75,000 sqft	
Landscape and Hardscape	City Park	22 Acre	
Perimeter Street Improvements	Other Asphalt Surface	13,500 sqft	

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	CalEEMod Phase	Start Date	End Date	No. Days	Equipment	Quantity
Demolish Buildings: Hazmat Storage, Paint Shop, N22, N24, N25, N26, N26A- Trailer, N26B-Trailer, N26C, N28, N31, N32, N33, Buildings 14- 16-18, Imaging Center, Professional Building	Demolition	11/17/2021	3/15/2022	85	Concrete/Industrial Saws	2
					Excavators	1
					Rubber Tired Loaders	1
					Tractors/Loaders/Backhoes	3
					Rubber Tired Dozers	1
Water Trucks	2					
Carson Street access road associated sitework Perimeter street improvements (Carson Street) Landscape and hardscape (Westpark) Phase M Site (landscape and hardscape) Research Building	Grading	3/16/2022	10/15/2024	675	Rubber Tired Loaders	1
					Grader	1
					Tractors/Loaders/Backhoes	3
					Air Compressors	1
					Water Trucks	1
Building Construction	12/2/2022	5/8/2024	374	Forklift	1	
				Tractors/Loaders/Backhoes	3	
				Air Compressors	1	
				Welder	1	
				Crane	1	
Architectural Coatings	1/1/2024	5/8/2024	93	Air Compressors	1	
Paving	1/1/2024	5/8/2024	93	Tractors/Loaders/Backhoes	2	
				Roller	1	
				Paving Equipment	1	
				Trencher	1	

Demolition (CY)

Soft Demo	33,246	CY
Hard Demo	28,128	CY
Dirt Export	31,953	CY
Dirt Import	69,094	CY

Architectural Coating

Non-Residential Land Uses			
Land Use	Area (sf)	Interior (sf)	Exterior (sf)
Bioscience Building	250,000	375,000	125,000
Parking Structure	400,000	24,000	100,000
Outpatient Building B	97,000	145,500	48,500
Total Non-Residential		544,500	273,500

ENTER VALUES ABOVE INTO CALEEMOD

Harbor-UCLA Master Plan  
Air Quality and Greenhouse Gas Assessment

Project Information

Land Use	CalEEMod Land Use Type	Units
LA Biomed	Lab/Medical Office —	225,000 sqft

Source: Harbor-UCLA, 2015; PCR Services Corporation, 2015

Construction Schedule and California Emissions Estimator Model (CalEEMod) Inputs

Activity	Caleemod Phase	Start Date	End Date	No. Days	Equipment	Quantity
	Grading	1/1/2022	4/19/2022	77	Rubber Tired Loaders	1
					Tractors/Loaders/Backhoes	1
					Water Trucks	1
	Building Construction (4)	4/20/2022	12/30/2022	183	Forklift	2
					Welder	2
					Tractors/Loaders/Backhoes	2
					Air Compressors	1
					Water Trucks	1
					Crane	1
	Building Construction (4)	1/1/2029	12/30/2029	260	Forklift	2
					Welder	2
					Tractors/Loaders/Backhoes	2
					Air Compressors	1
					Water Trucks	1
					Crane	1
Architectural Coatings	7/1/2029	12/30/2029	130	Air Compressors	1	
Paving	8/1/2029	12/30/2029	108	Tractors/Loaders/Backhoes	1	
				Cement and Motar Mixers	1	
				Roller	1	
				Paving Equipment	1	
				Trencher	1	

# **Appendix B. 2**

## **Construction Emissions – CalEEMod Output (Summer and Winter)**

- Phase 1 Construction Emissions
- Phase 2 Construction Emissions
- Phase 3 Construction Emissions
- Phase 4 Construction Emissions
- Phase 5 Construction Emissions
- Phase 6 Construction Emissions
- LA Biomed Construction Emissions

## **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**

*Phase 1 Construction Emissions*

## Harbor UCLA Master Plan- Phase 1 South Coast Air Basin, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	809.00	Space	7.28	300,700.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Demolition -

Grading -

Architectural Coating - Paved Coating Exterior- 6% of the square footage

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	57.00
tblConstructionPhase	NumDays	230.00	250.00

tblConstructionPhase	NumDays	20.00	122.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	20.00	57.00
tblConstructionPhase	PhaseEndDate	4/8/2021	1/19/2021
tblConstructionPhase	PhaseEndDate	8/14/2019	1/19/2021
tblConstructionPhase	PhaseEndDate	8/28/2018	8/29/2018
tblConstructionPhase	PhaseEndDate	4/8/2021	1/19/2021
tblConstructionPhase	PhaseStartDate	1/20/2021	11/1/2020
tblConstructionPhase	PhaseStartDate	8/30/2018	2/5/2020
tblConstructionPhase	PhaseStartDate	5/31/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	1/20/2021	11/1/2020
tblGrading	MaterialExported	0.00	28,851.00
tblGrading	MaterialImported	0.00	37,067.00
tblLandUse	LandUseSquareFeet	323,600.00	300,700.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	358.00	3,369.00
tblTripsAndVMT	HaulingTripNumber	8,240.00	10,986.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	128.00
tblTripsAndVMT	WorkerTripNumber	13.00	499.00

tbITripsAndVMT	WorkerTripNumber	126.00	516.00
tbITripsAndVMT	WorkerTripNumber	13.00	40.00
tbITripsAndVMT	WorkerTripNumber	25.00	68.00

## 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					
2017	5.0800	48.6449	42.6878	0.0811	5.3766	2.4373	7.8139	1.3023	2.2914	3.5937	0.0000	7,746.3659	7,746.3659	1.1203	0.0000	7,769.8917
2018	7.1405	70.6425	78.7154	0.2219	15.2502	2.2845	17.5347	5.6870	2.1019	7.7890	0.0000	20,353.3475	20,353.3475	1.1178	0.0000	20,376.8213
2020	126.6190	24.8548	48.8569	0.1246	7.2812	1.2657	8.5469	1.9370	1.1818	3.1188	0.0000	9,780.7220	9,780.7220	0.9699	0.0000	9,801.0893
2021	126.3051	22.6183	46.8136	0.1248	7.2812	1.1194	8.4007	1.9370	1.0449	2.9819	0.0000	9,683.0645	9,683.0645	0.9515	0.0000	9,703.0462
<b>Total</b>	<b>265.1445</b>	<b>166.7605</b>	<b>217.0738</b>	<b>0.5524</b>	<b>35.1892</b>	<b>7.1069</b>	<b>42.2962</b>	<b>10.8634</b>	<b>6.6200</b>	<b>17.4834</b>	<b>0.0000</b>	<b>47,563.4999</b>	<b>47,563.4999</b>	<b>4.1595</b>	<b>0.0000</b>	<b>47,650.8485</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					
2017	1.4324	9.8883	38.3539	0.0811	4.9888	0.1873	5.1761	1.2436	0.1775	1.4211	0.0000	7,746.3659	7,746.3659	1.1203	0.0000	7,769.8917
2018	4.7315	44.0352	73.7146	0.2219	11.1822	0.7580	11.9402	3.6221	0.7007	4.3228	0.0000	20,353.3475	20,353.3475	1.1178	0.0000	20,376.8213
2020	125.0634	8.2442	49.8707	0.1246	7.2812	0.2411	7.5224	1.9370	0.2332	2.1703	0.0000	9,780.7220	9,780.7220	0.9699	0.0000	9,801.0893
2021	124.9164	7.6033	48.0234	0.1248	7.2812	0.2239	7.5052	1.9370	0.2164	2.1534	0.0000	9,683.0645	9,683.0645	0.9515	0.0000	9,703.0462
<b>Total</b>	<b>256.1437</b>	<b>69.7711</b>	<b>209.9626</b>	<b>0.5524</b>	<b>30.7335</b>	<b>1.4104</b>	<b>32.1438</b>	<b>8.7398</b>	<b>1.3279</b>	<b>10.0677</b>	<b>0.0000</b>	<b>47,563.4999</b>	<b>47,563.4999</b>	<b>4.1595</b>	<b>0.0000</b>	<b>47,650.8485</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.39	58.16	3.28	0.00	12.66	80.15	24.00	19.55	79.94	42.42	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/12/2017	5/30/2018	5	122	
2	Grading	Grading	6/1/2018	8/29/2018	5	64	
3	Building Construction	Building Construction	2/5/2020	1/19/2021	5	250	
4	Paving	Paving	11/1/2020	1/19/2021	5	57	
5	Architectural Coating	Architectural Coating	11/1/2020	1/19/2021	5	57	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 451,050; Non-Residential Outdoor: 150,350 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	128.00	2.00	3,369.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	499.00	2.00	10,986.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	516.00	49.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	68.00	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

Clean Paved Roads

### 3.2 Demolition - 2017

#### 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					0.6357	0.0000	0.6357	0.0963	0.0000	0.0963			0.0000			0.0000
Off-Road	4.1356	40.8712	29.8321	0.0422		2.3151	2.3151		2.1790	2.1790		4,218.0339	4,218.0339	1.0335		4,239.7374
<b>Total</b>	<b>4.1356</b>	<b>40.8712</b>	<b>29.8321</b>	<b>0.0422</b>	<b>0.6357</b>	<b>2.3151</b>	<b>2.9508</b>	<b>0.0963</b>	<b>2.1790</b>	<b>2.2752</b>		<b>4,218.0339</b>	<b>4,218.0339</b>	<b>1.0335</b>		<b>4,239.7374</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	0.4500	7.0138	5.1541	0.0204	3.2976	0.1082	3.4058	0.8231	0.0995	0.9226		2,021.0050	2,021.0050	0.0144		2,021.3080
Vendor	0.0153	0.1582	0.1876	4.3000e-004	0.0125	2.5200e-003	0.0150	3.5600e-003	2.3100e-003	5.8800e-003		42.9334	42.9334	3.0000e-004		42.9398
Worker	0.4790	0.6018	7.5141	0.0181	1.4307	0.0115	1.4422	0.3794	0.0106	0.3901		1,464.3936	1,464.3936	0.0720		1,465.9065
<b>Total</b>	<b>0.9444</b>	<b>7.7737</b>	<b>12.8558</b>	<b>0.0389</b>	<b>4.7409</b>	<b>0.1222</b>	<b>4.8631</b>	<b>1.2061</b>	<b>0.1125</b>	<b>1.3185</b>		<b>3,528.3320</b>	<b>3,528.3320</b>	<b>0.0868</b>		<b>3,530.1543</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2479	0.0000	0.2479	0.0375	0.0000	0.0375			0.0000			0.0000
Off-Road	0.4880	2.1146	25.4982	0.0422		0.0651	0.0651		0.0651	0.0651	0.0000	4,218.0339	4,218.0339	1.0335		4,239.7374
<b>Total</b>	<b>0.4880</b>	<b>2.1146</b>	<b>25.4982</b>	<b>0.0422</b>	<b>0.2479</b>	<b>0.0651</b>	<b>0.3130</b>	<b>0.0375</b>	<b>0.0651</b>	<b>0.1026</b>	<b>0.0000</b>	<b>4,218.0339</b>	<b>4,218.0339</b>	<b>1.0335</b>		<b>4,239.7374</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	0.4500	7.0138	5.1541	0.0204	3.2976	0.1082	3.4058	0.8231	0.0995	0.9226		2,021.0050	2,021.0050	0.0144			2,021.3080
Vendor	0.0153	0.1582	0.1876	4.3000e-004	0.0125	2.5200e-003	0.0150	3.5600e-003	2.3100e-003	5.8800e-003		42.9334	42.9334	3.0000e-004			42.9398
Worker	0.4790	0.6018	7.5141	0.0181	1.4307	0.0115	1.4422	0.3794	0.0106	0.3901		1,464.3936	1,464.3936	0.0720			1,465.9065
<b>Total</b>	<b>0.9444</b>	<b>7.7737</b>	<b>12.8558</b>	<b>0.0389</b>	<b>4.7409</b>	<b>0.1222</b>	<b>4.8631</b>	<b>1.2061</b>	<b>0.1125</b>	<b>1.3185</b>		<b>3,528.3320</b>	<b>3,528.3320</b>	<b>0.0868</b>			<b>3,530.1543</b>

### 3.2 Demolition - 2018

#### 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					0.6357	0.0000	0.6357	0.0963	0.0000	0.0963			0.0000				0.0000
Off-Road	3.6307	35.8100	28.4808	0.0422		1.9639	1.9639		1.8495	1.8495		4,169.0905	4,169.0905	1.0207			4,190.5243
<b>Total</b>	<b>3.6307</b>	<b>35.8100</b>	<b>28.4808</b>	<b>0.0422</b>	<b>0.6357</b>	<b>1.9639</b>	<b>2.5996</b>	<b>0.0963</b>	<b>1.8495</b>	<b>1.9458</b>		<b>4,169.0905</b>	<b>4,169.0905</b>	<b>1.0207</b>			<b>4,190.5243</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	0.4402	6.5110	5.0322	0.0203	0.5285	0.1082	0.6367	0.1434	0.0995	0.2429		1,987.4740	1,987.4740	0.0146		1,987.7810
Vendor	0.0144	0.1452	0.1788	4.3000e-004	0.0125	2.3700e-003	0.0149	3.5600e-003	2.1800e-003	5.7400e-003		42.2135	42.2135	3.0000e-004		42.2198
Worker	0.4319	0.5460	6.8272	0.0181	1.4307	0.0112	1.4419	0.3794	0.0104	0.3898		1,409.9041	1,409.9041	0.0669		1,411.3082
<b>Total</b>	<b>0.8864</b>	<b>7.2022</b>	<b>12.0382</b>	<b>0.0389</b>	<b>1.9718</b>	<b>0.1217</b>	<b>2.0935</b>	<b>0.5264</b>	<b>0.1121</b>	<b>0.6384</b>		<b>3,439.5915</b>	<b>3,439.5915</b>	<b>0.0818</b>		<b>3,441.3091</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2479	0.0000	0.2479	0.0375	0.0000	0.0375			0.0000			0.0000
Off-Road	0.4880	2.1146	25.4982	0.0422		0.0651	0.0651		0.0651	0.0651	0.0000	4,169.0905	4,169.0905	1.0207		4,190.5243
<b>Total</b>	<b>0.4880</b>	<b>2.1146</b>	<b>25.4982</b>	<b>0.0422</b>	<b>0.2479</b>	<b>0.0651</b>	<b>0.3130</b>	<b>0.0375</b>	<b>0.0651</b>	<b>0.1026</b>	<b>0.0000</b>	<b>4,169.0905</b>	<b>4,169.0905</b>	<b>1.0207</b>		<b>4,190.5243</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	0.4402	6.5110	5.0322	0.0203	0.5285	0.1082	0.6367	0.1434	0.0995	0.2429		1,987.4740	1,987.4740	0.0146		1,987.7810
Vendor	0.0144	0.1452	0.1788	4.3000e-004	0.0125	2.3700e-003	0.0149	3.5600e-003	2.1800e-003	5.7400e-003		42.2135	42.2135	3.0000e-004		42.2198
Worker	0.4319	0.5460	6.8272	0.0181	1.4307	0.0112	1.4419	0.3794	0.0104	0.3898		1,409.9041	1,409.9041	0.0669		1,411.3082
<b>Total</b>	<b>0.8864</b>	<b>7.2022</b>	<b>12.0382</b>	<b>0.0389</b>	<b>1.9718</b>	<b>0.1217</b>	<b>2.0935</b>	<b>0.5264</b>	<b>0.1121</b>	<b>0.6384</b>		<b>3,439.5915</b>	<b>3,439.5915</b>	<b>0.0818</b>		<b>3,441.3091</b>

### 3.3 Grading - 2018

#### 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					6.6688	0.0000	6.6688	3.3851	0.0000	3.3851			0.0000			0.0000
Off-Road	2.7064	27.8959	20.6402	0.0244		1.5661	1.5661		1.4409	1.4409		2,460.3614	2,460.3614	0.7659		2,476.4462
<b>Total</b>	<b>2.7064</b>	<b>27.8959</b>	<b>20.6402</b>	<b>0.0244</b>	<b>6.6688</b>	<b>1.5661</b>	<b>8.2350</b>	<b>3.3851</b>	<b>1.4409</b>	<b>4.8260</b>		<b>2,460.3614</b>	<b>2,460.3614</b>	<b>0.7659</b>		<b>2,476.4462</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	2.7361	40.4730	31.2809	0.1265	2.9912	0.6723	3.6635	0.8191	0.6185	1.4376		12,354.3497	12,354.3497	0.0909		12,356.2584
Vendor	0.0144	0.1452	0.1788	4.3000e-004	0.0125	2.3700e-003	0.0149	3.5600e-003	2.1800e-003	5.7400e-003		42.2135	42.2135	3.0000e-004		42.2198
Worker	1.6837	2.1284	26.6156	0.0706	5.5776	0.0437	5.6213	1.4792	0.0404	1.5196		5,496.4230	5,496.4230	0.2607		5,501.8969
<b>Total</b>	<b>4.4342</b>	<b>42.7466</b>	<b>58.0753</b>	<b>0.1975</b>	<b>8.5814</b>	<b>0.7184</b>	<b>9.2997</b>	<b>2.3019</b>	<b>0.6611</b>	<b>2.9630</b>		<b>17,892.9861</b>	<b>17,892.9861</b>	<b>0.3519</b>		<b>17,900.3751</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					2.6008	0.0000	2.6008	1.3202	0.0000	1.3202			0.0000			0.0000
Off-Road	0.2974	1.2886	15.6394	0.0244		0.0397	0.0397		0.0397	0.0397	0.0000	2,460.3614	2,460.3614	0.7659		2,476.4462
<b>Total</b>	<b>0.2974</b>	<b>1.2886</b>	<b>15.6394</b>	<b>0.0244</b>	<b>2.6008</b>	<b>0.0397</b>	<b>2.6405</b>	<b>1.3202</b>	<b>0.0397</b>	<b>1.3599</b>	<b>0.0000</b>	<b>2,460.3614</b>	<b>2,460.3614</b>	<b>0.7659</b>		<b>2,476.4462</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	2.7361	40.4730	31.2809	0.1265	2.9912	0.6723	3.6635	0.8191	0.6185	1.4376		12,354.3497	12,354.3497	0.0909		12,356.2584
Vendor	0.0144	0.1452	0.1788	4.3000e-004	0.0125	2.3700e-003	0.0149	3.5600e-003	2.1800e-003	5.7400e-003		42.2135	42.2135	3.0000e-004		42.2198
Worker	1.6837	2.1284	26.6156	0.0706	5.5776	0.0437	5.6213	1.4792	0.0404	1.5196		5,496.4230	5,496.4230	0.2607		5,501.8969
<b>Total</b>	<b>4.4342</b>	<b>42.7466</b>	<b>58.0753</b>	<b>0.1975</b>	<b>8.5814</b>	<b>0.7184</b>	<b>9.2997</b>	<b>2.3019</b>	<b>0.6611</b>	<b>2.9630</b>		<b>17,892.9861</b>	<b>17,892.9861</b>	<b>0.3519</b>		<b>17,900.3751</b>

### 3.4 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8742	7.4843	4.7582	9.0200e-003		0.3738	0.3738		0.3509	0.3509		833.8664	833.8664	0.2333		838.7647
<b>Total</b>	<b>0.8742</b>	<b>7.4843</b>	<b>4.7582</b>	<b>9.0200e-003</b>		<b>0.3738</b>	<b>0.3738</b>		<b>0.3509</b>	<b>0.3509</b>		<b>833.8664</b>	<b>833.8664</b>	<b>0.2333</b>		<b>838.7647</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	0.3166	2.8658	4.0725	0.0106	0.3064	0.0505	0.3569	0.0873	0.0464	0.1337		991.2470	991.2470	7.0800e-003		991.3956
Worker	1.5021	1.8718	23.5784	0.0729	5.7677	0.0441	5.8118	1.5296	0.0409	1.5705		5,246.8823	5,246.8823	0.2390		5,251.9007
<b>Total</b>	<b>1.8187</b>	<b>4.7376</b>	<b>27.6509</b>	<b>0.0835</b>	<b>6.0740</b>	<b>0.0946</b>	<b>6.1686</b>	<b>1.6169</b>	<b>0.0873</b>	<b>1.7042</b>		<b>6,238.1293</b>	<b>6,238.1293</b>	<b>0.2461</b>		<b>6,243.2963</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	0.4216	1.9159	5.1538	9.0200e-003		0.0975	0.0975		0.0975	0.0975	0.0000	833.8664	833.8664	0.2333		838.7647
<b>Total</b>	<b>0.4216</b>	<b>1.9159</b>	<b>5.1538</b>	<b>9.0200e-003</b>		<b>0.0975</b>	<b>0.0975</b>		<b>0.0975</b>	<b>0.0975</b>	<b>0.0000</b>	<b>833.8664</b>	<b>833.8664</b>	<b>0.2333</b>		<b>838.7647</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	0.3166	2.8658	4.0725	0.0106	0.3064	0.0505	0.3569	0.0873	0.0464	0.1337		991.2470	991.2470	7.0800e-003		991.3956
Worker	1.5021	1.8718	23.5784	0.0729	5.7677	0.0441	5.8118	1.5296	0.0409	1.5705		5,246.8823	5,246.8823	0.2390		5,251.9007
<b>Total</b>	<b>1.8187</b>	<b>4.7376</b>	<b>27.6509</b>	<b>0.0835</b>	<b>6.0740</b>	<b>0.0946</b>	<b>6.1686</b>	<b>1.6169</b>	<b>0.0873</b>	<b>1.7042</b>		<b>6,238.1293</b>	<b>6,238.1293</b>	<b>0.2461</b>		<b>6,243.2963</b>

## 3.4 Building Construction - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7855	6.8394	4.5841	9.0200e-003		0.3264	0.3264		0.3062	0.3062		833.8228	833.8228	0.2296		838.6442
<b>Total</b>	<b>0.7855</b>	<b>6.8394</b>	<b>4.5841</b>	<b>9.0200e-003</b>		<b>0.3264</b>	<b>0.3264</b>		<b>0.3062</b>	<b>0.3062</b>		<b>833.8228</b>	<b>833.8228</b>	<b>0.2296</b>		<b>838.6442</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	0.3061	2.4336	3.9614	0.0106	0.3064	0.0460	0.3524	0.0873	0.0423	0.1296		990.8267	990.8267	7.1300e-003		990.9764
Worker	1.4218	1.7508	22.1826	0.0730	5.7677	0.0442	5.8118	1.5296	0.0409	1.5706		5,166.3487	5,166.3487	0.2288		5,171.1528
<b>Total</b>	<b>1.7279</b>	<b>4.1844</b>	<b>26.1440</b>	<b>0.0836</b>	<b>6.0741</b>	<b>0.0901</b>	<b>6.1642</b>	<b>1.6169</b>	<b>0.0832</b>	<b>1.7001</b>		<b>6,157.1754</b>	<b>6,157.1754</b>	<b>0.2359</b>		<b>6,162.1292</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	0.3822	1.8535	5.1056	9.0200e-003		0.0847	0.0847		0.0847	0.0847	0.0000	833.8228	833.8228	0.2296		838.6442
<b>Total</b>	<b>0.3822</b>	<b>1.8535</b>	<b>5.1056</b>	<b>9.0200e-003</b>		<b>0.0847</b>	<b>0.0847</b>		<b>0.0847</b>	<b>0.0847</b>	<b>0.0000</b>	<b>833.8228</b>	<b>833.8228</b>	<b>0.2296</b>		<b>838.6442</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	0.3061	2.4336	3.9614	0.0106	0.3064	0.0460	0.3524	0.0873	0.0423	0.1296		990.8267	990.8267	7.1300e-003		990.9764
Worker	1.4218	1.7508	22.1826	0.0730	5.7677	0.0442	5.8118	1.5296	0.0409	1.5706		5,166.3487	5,166.3487	0.2288		5,171.1528
<b>Total</b>	<b>1.7279</b>	<b>4.1844</b>	<b>26.1440</b>	<b>0.0836</b>	<b>6.0741</b>	<b>0.0901</b>	<b>6.1642</b>	<b>1.6169</b>	<b>0.0832</b>	<b>1.7001</b>		<b>6,157.1754</b>	<b>6,157.1754</b>	<b>0.2359</b>		<b>6,162.1292</b>

### 3.5 Paving - 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	1.1112	10.5573	9.6814	0.0139		0.6771	0.6771		0.6241	0.6241		1,329.0936	1,329.0936	0.4188		1,337.8876
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1112</b>	<b>10.5573</b>	<b>9.6814</b>	<b>0.0139</b>		<b>0.6771</b>	<b>0.6771</b>		<b>0.6241</b>	<b>0.6241</b>		<b>1,329.0936</b>	<b>1,329.0936</b>	<b>0.4188</b>		<b>1,337.8876</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	0.1164	0.1451	1.8278	5.6500e-003	0.4471	3.4200e-003	0.4505	0.1186	3.1700e-003	0.1217		406.7351	406.7351	0.0185		407.1241
<b>Total</b>	<b>0.1164</b>	<b>0.1451</b>	<b>1.8278</b>	<b>5.6500e-003</b>	<b>0.4471</b>	<b>3.4200e-003</b>	<b>0.4505</b>	<b>0.1186</b>	<b>3.1700e-003</b>	<b>0.1217</b>		<b>406.7351</b>	<b>406.7351</b>	<b>0.0185</b>		<b>407.1241</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	0.2208	1.0702	10.2986	0.0139		0.0359	0.0359		0.0359	0.0359	0.0000	1,329.0936	1,329.0936	0.4188		1,337.8876
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2208</b>	<b>1.0702</b>	<b>10.2986</b>	<b>0.0139</b>		<b>0.0359</b>	<b>0.0359</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>1,329.0936</b>	<b>1,329.0936</b>	<b>0.4188</b>		<b>1,337.8876</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	0.1164	0.1451	1.8278	5.6500e-003	0.4471	3.4200e-003	0.4505	0.1186	3.1700e-003	0.1217		406.7351	406.7351	0.0185		407.1241
<b>Total</b>	<b>0.1164</b>	<b>0.1451</b>	<b>1.8278</b>	<b>5.6500e-003</b>	<b>0.4471</b>	<b>3.4200e-003</b>	<b>0.4505</b>	<b>0.1186</b>	<b>3.1700e-003</b>	<b>0.1217</b>		<b>406.7351</b>	<b>406.7351</b>	<b>0.0185</b>		<b>407.1241</b>

### 3.5 Paving - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0169	9.7012	9.6251	0.0139		0.5996	0.5996		0.5528	0.5528		1,329.2895	1,329.2895	0.4188		1,338.0849
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0169</b>	<b>9.7012</b>	<b>9.6251</b>	<b>0.0139</b>		<b>0.5996</b>	<b>0.5996</b>		<b>0.5528</b>	<b>0.5528</b>		<b>1,329.2895</b>	<b>1,329.2895</b>	<b>0.4188</b>		<b>1,338.0849</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	0.1102	0.1357	1.7196	5.6600e-003	0.4471	3.4200e-003	0.4505	0.1186	3.1700e-003	0.1218		400.4922	400.4922	0.0177		400.8646
<b>Total</b>	<b>0.1102</b>	<b>0.1357</b>	<b>1.7196</b>	<b>5.6600e-003</b>	<b>0.4471</b>	<b>3.4200e-003</b>	<b>0.4505</b>	<b>0.1186</b>	<b>3.1700e-003</b>	<b>0.1218</b>		<b>400.4922</b>	<b>400.4922</b>	<b>0.0177</b>		<b>400.8646</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	0.2208	1.0702	10.2985	0.0139		0.0359	0.0359		0.0359	0.0359	0.0000	1,329.2895	1,329.2895	0.4188		1,338.0849
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2208</b>	<b>1.0702</b>	<b>10.2985</b>	<b>0.0139</b>		<b>0.0359</b>	<b>0.0359</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>1,329.2895</b>	<b>1,329.2895</b>	<b>0.4188</b>		<b>1,338.0849</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	0.1102	0.1357	1.7196	5.6600e-003	0.4471	3.4200e-003	0.4505	0.1186	3.1700e-003	0.1218		400.4922	400.4922	0.0177		400.8646
<b>Total</b>	<b>0.1102</b>	<b>0.1357</b>	<b>1.7196</b>	<b>5.6600e-003</b>	<b>0.4471</b>	<b>3.4200e-003</b>	<b>0.4505</b>	<b>0.1186</b>	<b>3.1700e-003</b>	<b>0.1218</b>		<b>400.4922</b>	<b>400.4922</b>	<b>0.0177</b>		<b>400.8646</b>

### 3.6 Architectural Coating - 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					
Archit. Coating	122.2583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9057
<b>Total</b>	<b>122.5005</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9057</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	0.1980	0.2467	3.1072	9.6000e-003	0.7601	5.8100e-003	0.7659	0.2016	5.3900e-003	0.2070		691.4496	691.4496	0.0315		692.1109
<b>Total</b>	<b>0.1980</b>	<b>0.2467</b>	<b>3.1072</b>	<b>9.6000e-003</b>	<b>0.7601</b>	<b>5.8100e-003</b>	<b>0.7659</b>	<b>0.2016</b>	<b>5.3900e-003</b>	<b>0.2070</b>		<b>691.4496</b>	<b>691.4496</b>	<b>0.0315</b>		<b>692.1109</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	122.2583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9057
<b>Total</b>	<b>122.2880</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9057</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	0.1980	0.2467	3.1072	9.6000e-003	0.7601	5.8100e-003	0.7659	0.2016	5.3900e-003	0.2070		691.4496	691.4496	0.0315		692.1109
<b>Total</b>	<b>0.1980</b>	<b>0.2467</b>	<b>3.1072</b>	<b>9.6000e-003</b>	<b>0.7601</b>	<b>5.8100e-003</b>	<b>0.7659</b>	<b>0.2016</b>	<b>5.3900e-003</b>	<b>0.2070</b>		<b>691.4496</b>	<b>691.4496</b>	<b>0.0315</b>		<b>692.1109</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	122.2583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.8537
<b>Total</b>	<b>122.4772</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.8537</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	0.1874	0.2307	2.9233	9.6200e-003	0.7601	5.8200e-003	0.7659	0.2016	5.4000e-003	0.2070		680.8367	680.8367	0.0302		681.4698
<b>Total</b>	<b>0.1874</b>	<b>0.2307</b>	<b>2.9233</b>	<b>9.6200e-003</b>	<b>0.7601</b>	<b>5.8200e-003</b>	<b>0.7659</b>	<b>0.2016</b>	<b>5.4000e-003</b>	<b>0.2070</b>		<b>680.8367</b>	<b>680.8367</b>	<b>0.0302</b>		<b>681.4698</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	122.2583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.8537
<b>Total</b>	<b>122.2880</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.8537</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	0.1874	0.2307	2.9233	9.6200e-003	0.7601	5.8200e-003	0.7659	0.2016	5.4000e-003	0.2070		680.8367	680.8367	0.0302		681.4698
<b>Total</b>	<b>0.1874</b>	<b>0.2307</b>	<b>2.9233</b>	<b>9.6200e-003</b>	<b>0.7601</b>	<b>5.8200e-003</b>	<b>0.7659</b>	<b>0.2016</b>	<b>5.4000e-003</b>	<b>0.2070</b>		<b>680.8367</b>	<b>680.8367</b>	<b>0.0302</b>		<b>681.4698</b>

## Harbor UCLA Master Plan- Phase 1 South Coast Air Basin, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	809.00	Space	7.28	300,700.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Demolition -

Grading -

Architectural Coating - Paved Coating Exterior- 6% of the square footage

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	57.00
tblConstructionPhase	NumDays	230.00	250.00

tblConstructionPhase	NumDays	20.00	122.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	20.00	57.00
tblConstructionPhase	PhaseEndDate	4/8/2021	1/19/2021
tblConstructionPhase	PhaseEndDate	8/14/2019	1/19/2021
tblConstructionPhase	PhaseEndDate	8/28/2018	8/29/2018
tblConstructionPhase	PhaseEndDate	4/8/2021	1/19/2021
tblConstructionPhase	PhaseStartDate	1/20/2021	11/1/2020
tblConstructionPhase	PhaseStartDate	8/30/2018	2/5/2020
tblConstructionPhase	PhaseStartDate	5/31/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	1/20/2021	11/1/2020
tblGrading	MaterialExported	0.00	28,851.00
tblGrading	MaterialImported	0.00	37,067.00
tblLandUse	LandUseSquareFeet	323,600.00	300,700.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	358.00	3,369.00
tblTripsAndVMT	HaulingTripNumber	8,240.00	10,986.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	128.00
tblTripsAndVMT	WorkerTripNumber	13.00	499.00

tbITripsAndVMT	WorkerTripNumber	126.00	516.00
tbITripsAndVMT	WorkerTripNumber	13.00	40.00
tbITripsAndVMT	WorkerTripNumber	25.00	68.00

## 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					
2017	5.1144	48.9614	42.9045	0.0799	5.3766	2.4376	7.8142	1.3023	2.2917	3.5940	0.0000	7,650.0508	7,650.0508	1.1205	0.0000	7,673.5810
2018	7.3031	72.3140	81.4183	0.2173	15.2502	2.2860	17.5362	5.6870	2.1033	7.7903	0.0000	19,980.777	19,980.787	1.1191	0.0000	20,004.2886
2020	126.6756	25.1398	47.2537	0.1189	7.2812	1.2661	8.5473	1.9370	1.1822	3.1192	0.0000	9,374.5820	9,374.5820	0.9701	0.0000	9,394.9545
2021	126.3580	22.8780	45.3071	0.1191	7.2812	1.1198	8.4010	1.9370	1.0452	2.9822	0.0000	9,282.0127	9,282.0127	0.9518	0.0000	9,301.9998
<b>Total</b>	<b>265.4510</b>	<b>169.2931</b>	<b>216.8836</b>	<b>0.5352</b>	<b>35.1892</b>	<b>7.1095</b>	<b>42.2987</b>	<b>10.8634</b>	<b>6.6223</b>	<b>17.4857</b>	<b>0.0000</b>	<b>46,287.4331</b>	<b>46,287.4331</b>	<b>4.1615</b>	<b>0.0000</b>	<b>46,374.8239</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					
2017	1.4668	10.2048	38.5706	0.0799	4.9888	0.1876	5.1763	1.2436	0.1778	1.4214	0.0000	7,650.0508	7,650.0508	1.1205	0.0000	7,673.5810
2018	4.8941	45.7067	76.4175	0.2173	11.1822	0.7595	11.9417	3.6221	0.7021	4.3242	0.0000	19,980.777	19,980.787	1.1191	0.0000	20,004.2886
2020	125.1200	8.5293	48.2675	0.1189	7.2812	0.2416	7.5228	1.9370	0.2336	2.1706	0.0000	9,374.5820	9,374.5820	0.9701	0.0000	9,394.9545
2021	124.9693	7.8630	46.5168	0.1191	7.2812	0.2243	7.5055	1.9370	0.2167	2.1538	0.0000	9,282.0127	9,282.0127	0.9518	0.0000	9,301.9998
<b>Total</b>	<b>256.4502</b>	<b>72.3037</b>	<b>209.7724</b>	<b>0.5352</b>	<b>30.7335</b>	<b>1.4129</b>	<b>32.1464</b>	<b>8.7398</b>	<b>1.3302</b>	<b>10.0700</b>	<b>0.0000</b>	<b>46,287.4331</b>	<b>46,287.4331</b>	<b>4.1615</b>	<b>0.0000</b>	<b>46,374.8239</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	N20	CO2e
Percent Reduction	3.39	57.29	3.28	0.00	12.66	80.13	24.00	19.55	79.91	42.41	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/12/2017	5/30/2018	5	122	
2	Grading	Grading	6/1/2018	8/29/2018	5	64	
3	Building Construction	Building Construction	2/5/2020	1/19/2021	5	250	
4	Paving	Paving	11/1/2020	1/19/2021	5	57	
5	Architectural Coating	Architectural Coating	11/1/2020	1/19/2021	5	57	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 451,050; Non-Residential Outdoor: 150,350 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	128.00	2.00	3,369.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	499.00	2.00	10,986.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	516.00	49.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	68.00	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

Clean Paved Roads

### 3.2 Demolition - 2017

#### 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					0.6357	0.0000	0.6357	0.0963	0.0000	0.0963			0.0000				0.0000
Off-Road	4.1356	40.8712	29.8321	0.0422		2.3151	2.3151		2.1790	2.1790		4,218.0339	4,218.0339	1.0335			4,239.7374
<b>Total</b>	<b>4.1356</b>	<b>40.8712</b>	<b>29.8321</b>	<b>0.0422</b>	<b>0.6357</b>	<b>2.3151</b>	<b>2.9508</b>	<b>0.0963</b>	<b>2.1790</b>	<b>2.2752</b>		<b>4,218.0339</b>	<b>4,218.0339</b>	<b>1.0335</b>			<b>4,239.7374</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	0.4734	7.2672	5.9431	0.0203	3.2976	0.1085	3.4061	0.8231	0.0998	0.9228		2,016.2014	2,016.2014	0.0146			2,016.5087
Vendor	0.0167	0.1621	0.2273	4.3000e-004	0.0125	2.5400e-003	0.0150	3.5600e-003	2.3400e-003	5.9000e-003		42.5728	42.5728	3.1000e-004			42.5793
Worker	0.4886	0.6609	6.9020	0.0170	1.4307	0.0115	1.4422	0.3794	0.0106	0.3901		1,373.2427	1,373.2427	0.0720			1,374.7555
<b>Total</b>	<b>0.9788</b>	<b>8.0902</b>	<b>13.0725</b>	<b>0.0377</b>	<b>4.7409</b>	<b>0.1225</b>	<b>4.8633</b>	<b>1.2061</b>	<b>0.1127</b>	<b>1.3188</b>		<b>3,432.0169</b>	<b>3,432.0169</b>	<b>0.0870</b>			<b>3,433.8436</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.2479	0.0000	0.2479	0.0375	0.0000	0.0375			0.0000				0.0000
Off-Road	0.4880	2.1146	25.4982	0.0422		0.0651	0.0651		0.0651	0.0651	0.0000	4,218.0339	4,218.0339	1.0335			4,239.7374
<b>Total</b>	<b>0.4880</b>	<b>2.1146</b>	<b>25.4982</b>	<b>0.0422</b>	<b>0.2479</b>	<b>0.0651</b>	<b>0.3130</b>	<b>0.0375</b>	<b>0.0651</b>	<b>0.1026</b>	<b>0.0000</b>	<b>4,218.0339</b>	<b>4,218.0339</b>	<b>1.0335</b>			<b>4,239.7374</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	0.4734	7.2672	5.9431	0.0203	3.2976	0.1085	3.4061	0.8231	0.0998	0.9228		2,016.2014	2,016.2014	0.0146		2,016.5087
Vendor	0.0167	0.1621	0.2273	4.3000e-004	0.0125	2.5400e-003	0.0150	3.5600e-003	2.3400e-003	5.9000e-003		42.5728	42.5728	3.1000e-004		42.5793
Worker	0.4886	0.6609	6.9020	0.0170	1.4307	0.0115	1.4422	0.3794	0.0106	0.3901		1,373.2427	1,373.2427	0.0720		1,374.7555
<b>Total</b>	<b>0.9788</b>	<b>8.0902</b>	<b>13.0725</b>	<b>0.0377</b>	<b>4.7409</b>	<b>0.1225</b>	<b>4.8633</b>	<b>1.2061</b>	<b>0.1127</b>	<b>1.3188</b>		<b>3,432.0169</b>	<b>3,432.0169</b>	<b>0.0870</b>		<b>3,433.8436</b>

### 3.2 Demolition - 2018

#### 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					0.6357	0.0000	0.6357	0.0963	0.0000	0.0963			0.0000			0.0000
Off-Road	3.6307	35.8100	28.4808	0.0422		1.9639	1.9639		1.8495	1.8495		4,169.0905	4,169.0905	1.0207		4,190.5243
<b>Total</b>	<b>3.6307</b>	<b>35.8100</b>	<b>28.4808</b>	<b>0.0422</b>	<b>0.6357</b>	<b>1.9639</b>	<b>2.5996</b>	<b>0.0963</b>	<b>1.8495</b>	<b>1.9458</b>		<b>4,169.0905</b>	<b>4,169.0905</b>	<b>1.0207</b>		<b>4,190.5243</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	0.4613	6.7458	5.8250	0.0203	0.5285	0.1084	0.6369	0.1434	0.0997	0.2431		1,982.7477	1,982.7477	0.0148		1,983.0591
Vendor	0.0156	0.1487	0.2181	4.3000e-004	0.0125	2.3900e-003	0.0149	3.5600e-003	2.2000e-003	5.7600e-003		41.8581	41.8581	3.1000e-004		41.8646
Worker	0.4395	0.5994	6.2464	0.0170	1.4307	0.0112	1.4419	0.3794	0.0104	0.3898		1,321.9650	1,321.9650	0.0669		1,323.3691
<b>Total</b>	<b>0.9165</b>	<b>7.4940</b>	<b>12.2895</b>	<b>0.0377</b>	<b>1.9718</b>	<b>0.1220</b>	<b>2.0938</b>	<b>0.5264</b>	<b>0.1123</b>	<b>0.6387</b>		<b>3,346.5707</b>	<b>3,346.5707</b>	<b>0.0820</b>		<b>3,348.2928</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2479	0.0000	0.2479	0.0375	0.0000	0.0375			0.0000			0.0000
Off-Road	0.4880	2.1146	25.4982	0.0422		0.0651	0.0651		0.0651	0.0651	0.0000	4,169.0905	4,169.0905	1.0207		4,190.5243
<b>Total</b>	<b>0.4880</b>	<b>2.1146</b>	<b>25.4982</b>	<b>0.0422</b>	<b>0.2479</b>	<b>0.0651</b>	<b>0.3130</b>	<b>0.0375</b>	<b>0.0651</b>	<b>0.1026</b>	<b>0.0000</b>	<b>4,169.0905</b>	<b>4,169.0905</b>	<b>1.0207</b>		<b>4,190.5243</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	0.4613	6.7458	5.8250	0.0203	0.5285	0.1084	0.6369	0.1434	0.0997	0.2431		1,982.7477	1,982.7477	0.0148		1,983.0591
Vendor	0.0156	0.1487	0.2181	4.3000e-004	0.0125	2.3900e-003	0.0149	3.5600e-003	2.2000e-003	5.7600e-003		41.8581	41.8581	3.1000e-004		41.8646
Worker	0.4395	0.5994	6.2464	0.0170	1.4307	0.0112	1.4419	0.3794	0.0104	0.3898		1,321.9650	1,321.9650	0.0669		1,323.3691
<b>Total</b>	<b>0.9165</b>	<b>7.4940</b>	<b>12.2895</b>	<b>0.0377</b>	<b>1.9718</b>	<b>0.1220</b>	<b>2.0938</b>	<b>0.5264</b>	<b>0.1123</b>	<b>0.6387</b>		<b>3,346.5707</b>	<b>3,346.5707</b>	<b>0.0820</b>		<b>3,348.2928</b>

## 3.3 Grading - 2018

### 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					6.6688	0.0000	6.6688	3.3851	0.0000	3.3851			0.0000			0.0000
Off-Road	2.7064	27.8959	20.6402	0.0244		1.5661	1.5661		1.4409	1.4409		2,460.3614	2,460.3614	0.7659		2,476.4462
<b>Total</b>	<b>2.7064</b>	<b>27.8959</b>	<b>20.6402</b>	<b>0.0244</b>	<b>6.6688</b>	<b>1.5661</b>	<b>8.2350</b>	<b>3.3851</b>	<b>1.4409</b>	<b>4.8260</b>		<b>2,460.3614</b>	<b>2,460.3614</b>	<b>0.7659</b>		<b>2,476.4462</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	2.8678	41.9326	36.2088	0.1262	2.9912	0.6738	3.6650	0.8191	0.6198	1.4389		12,324.9704	12,324.9704	0.0922		12,326.9061
Vendor	0.0156	0.1487	0.2181	4.3000e-004	0.0125	2.3900e-003	0.0149	3.5600e-003	2.2000e-003	5.7600e-003		41.8581	41.8581	3.1000e-004		41.8646
Worker	1.7133	2.3368	24.3512	0.0662	5.5776	0.0437	5.6213	1.4792	0.0404	1.5196		5,153.5979	5,153.5979	0.2607		5,159.0717
<b>Total</b>	<b>4.5967</b>	<b>44.4181</b>	<b>60.7781</b>	<b>0.1928</b>	<b>8.5814</b>	<b>0.7198</b>	<b>9.3012</b>	<b>2.3019</b>	<b>0.6624</b>	<b>2.9643</b>		<b>17,520.4264</b>	<b>17,520.4264</b>	<b>0.3531</b>		<b>17,527.8424</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					2.6008	0.0000	2.6008	1.3202	0.0000	1.3202			0.0000			0.0000
Off-Road	0.2974	1.2886	15.6394	0.0244		0.0397	0.0397		0.0397	0.0397	0.0000	2,460.3614	2,460.3614	0.7659		2,476.4462
<b>Total</b>	<b>0.2974</b>	<b>1.2886</b>	<b>15.6394</b>	<b>0.0244</b>	<b>2.6008</b>	<b>0.0397</b>	<b>2.6405</b>	<b>1.3202</b>	<b>0.0397</b>	<b>1.3599</b>	<b>0.0000</b>	<b>2,460.3614</b>	<b>2,460.3614</b>	<b>0.7659</b>		<b>2,476.4462</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	2.8678	41.9326	36.2088	0.1262	2.9912	0.6738	3.6650	0.8191	0.6198	1.4389		12,324.9704	12,324.9704	0.0922		12,326.9061
Vendor	0.0156	0.1487	0.2181	4.3000e-004	0.0125	2.3900e-003	0.0149	3.5600e-003	2.2000e-003	5.7600e-003		41.8581	41.8581	3.1000e-004		41.8646
Worker	1.7133	2.3368	24.3512	0.0662	5.5776	0.0437	5.6213	1.4792	0.0404	1.5196		5,153.5979	5,153.5979	0.2607		5,159.0717
<b>Total</b>	<b>4.5967</b>	<b>44.4181</b>	<b>60.7781</b>	<b>0.1928</b>	<b>8.5814</b>	<b>0.7198</b>	<b>9.3012</b>	<b>2.3019</b>	<b>0.6624</b>	<b>2.9643</b>		<b>17,520.4264</b>	<b>17,520.4264</b>	<b>0.3531</b>		<b>17,527.8424</b>

### 3.4 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8742	7.4843	4.7582	9.0200e-003		0.3738	0.3738		0.3509	0.3509		833.8664	833.8664	0.2333		838.7647
<b>Total</b>	<b>0.8742</b>	<b>7.4843</b>	<b>4.7582</b>	<b>9.0200e-003</b>		<b>0.3738</b>	<b>0.3738</b>		<b>0.3509</b>	<b>0.3509</b>		<b>833.8664</b>	<b>833.8664</b>	<b>0.2333</b>		<b>838.7647</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	0.3434	2.9313	5.0186	0.0105	0.3064	0.0509	0.3573	0.0873	0.0468	0.1341		982.8406	982.8406	7.3300e-003		982.9945
Worker	1.5267	2.0534	21.4704	0.0682	5.7677	0.0441	5.8118	1.5296	0.0409	1.5705		4,917.9872	4,917.9872	0.2390		4,923.0055
<b>Total</b>	<b>1.8701</b>	<b>4.9846</b>	<b>26.4890</b>	<b>0.0788</b>	<b>6.0740</b>	<b>0.0950</b>	<b>6.1690</b>	<b>1.6169</b>	<b>0.0877</b>	<b>1.7046</b>		<b>5,900.8278</b>	<b>5,900.8278</b>	<b>0.2463</b>		<b>5,906.0000</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	0.4216	1.9159	5.1538	9.0200e-003		0.0975	0.0975		0.0975	0.0975	0.0000	833.8664	833.8664	0.2333		838.7647
<b>Total</b>	<b>0.4216</b>	<b>1.9159</b>	<b>5.1538</b>	<b>9.0200e-003</b>		<b>0.0975</b>	<b>0.0975</b>		<b>0.0975</b>	<b>0.0975</b>	<b>0.0000</b>	<b>833.8664</b>	<b>833.8664</b>	<b>0.2333</b>		<b>838.7647</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	0.3434	2.9313	5.0186	0.0105	0.3064	0.0509	0.3573	0.0873	0.0468	0.1341		982.8406	982.8406	7.3300e-003		982.9945
Worker	1.5267	2.0534	21.4704	0.0682	5.7677	0.0441	5.8118	1.5296	0.0409	1.5705		4,917.9872	4,917.9872	0.2390		4,923.0055
<b>Total</b>	<b>1.8701</b>	<b>4.9846</b>	<b>26.4890</b>	<b>0.0788</b>	<b>6.0740</b>	<b>0.0950</b>	<b>6.1690</b>	<b>1.6169</b>	<b>0.0877</b>	<b>1.7046</b>		<b>5,900.8278</b>	<b>5,900.8278</b>	<b>0.2463</b>		<b>5,906.0000</b>

### 3.4 Building Construction - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7855	6.8394	4.5841	9.0200e-003		0.3264	0.3264		0.3062	0.3062		833.8228	833.8228	0.2296		838.6442
<b>Total</b>	<b>0.7855</b>	<b>6.8394</b>	<b>4.5841</b>	<b>9.0200e-003</b>		<b>0.3264</b>	<b>0.3264</b>		<b>0.3062</b>	<b>0.3062</b>		<b>833.8228</b>	<b>833.8228</b>	<b>0.2296</b>		<b>838.6442</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	0.3314	2.4891	4.8986	0.0105	0.3064	0.0463	0.3527	0.0873	0.0426	0.1299		982.4194	982.4194	7.3900e-003		982.5746
Worker	1.4446	1.9197	20.1618	0.0684	5.7677	0.0442	5.8118	1.5296	0.0409	1.5706		4,841.6619	4,841.6619	0.2288		4,846.4660
<b>Total</b>	<b>1.7760</b>	<b>4.4087</b>	<b>25.0604</b>	<b>0.0789</b>	<b>6.0741</b>	<b>0.0905</b>	<b>6.1645</b>	<b>1.6169</b>	<b>0.0836</b>	<b>1.7004</b>		<b>5,824.0812</b>	<b>5,824.0812</b>	<b>0.2362</b>		<b>5,829.0405</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	0.3822	1.8535	5.1056	9.0200e-003		0.0847	0.0847		0.0847	0.0847	0.0000	833.8228	833.8228	0.2296		838.6442
<b>Total</b>	<b>0.3822</b>	<b>1.8535</b>	<b>5.1056</b>	<b>9.0200e-003</b>		<b>0.0847</b>	<b>0.0847</b>		<b>0.0847</b>	<b>0.0847</b>	<b>0.0000</b>	<b>833.8228</b>	<b>833.8228</b>	<b>0.2296</b>		<b>838.6442</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	0.3314	2.4891	4.8986	0.0105	0.3064	0.0463	0.3527	0.0873	0.0426	0.1299		982.4194	982.4194	7.3900e-003		982.5746
Worker	1.4446	1.9197	20.1618	0.0684	5.7677	0.0442	5.8118	1.5296	0.0409	1.5706		4,841.6619	4,841.6619	0.2288		4,846.4660
<b>Total</b>	<b>1.7760</b>	<b>4.4087</b>	<b>25.0604</b>	<b>0.0789</b>	<b>6.0741</b>	<b>0.0905</b>	<b>6.1645</b>	<b>1.6169</b>	<b>0.0836</b>	<b>1.7004</b>		<b>5,824.0812</b>	<b>5,824.0812</b>	<b>0.2362</b>		<b>5,829.0405</b>

### 3.5 Paving - 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	1.1112	10.5573	9.6814	0.0139		0.6771	0.6771		0.6241	0.6241		1,329.0936	1,329.0936	0.4188		1,337.8876
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1112</b>	<b>10.5573</b>	<b>9.6814</b>	<b>0.0139</b>		<b>0.6771</b>	<b>0.6771</b>		<b>0.6241</b>	<b>0.6241</b>		<b>1,329.0936</b>	<b>1,329.0936</b>	<b>0.4188</b>		<b>1,337.8876</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	0.1184	0.1592	1.6644	5.2900e-003	0.4471	3.4200e-003	0.4505	0.1186	3.1700e-003	0.1217		381.2393	381.2393	0.0185		381.6283
<b>Total</b>	<b>0.1184</b>	<b>0.1592</b>	<b>1.6644</b>	<b>5.2900e-003</b>	<b>0.4471</b>	<b>3.4200e-003</b>	<b>0.4505</b>	<b>0.1186</b>	<b>3.1700e-003</b>	<b>0.1217</b>		<b>381.2393</b>	<b>381.2393</b>	<b>0.0185</b>		<b>381.6283</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	0.2208	1.0702	10.2986	0.0139		0.0359	0.0359		0.0359	0.0359	0.0000	1,329.0936	1,329.0936	0.4188		1,337.8876
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2208</b>	<b>1.0702</b>	<b>10.2986</b>	<b>0.0139</b>		<b>0.0359</b>	<b>0.0359</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>1,329.0936</b>	<b>1,329.0936</b>	<b>0.4188</b>		<b>1,337.8876</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	0.1184	0.1592	1.6644	5.2900e-003	0.4471	3.4200e-003	0.4505	0.1186	3.1700e-003	0.1217		381.2393	381.2393	0.0185		381.6283
<b>Total</b>	<b>0.1184</b>	<b>0.1592</b>	<b>1.6644</b>	<b>5.2900e-003</b>	<b>0.4471</b>	<b>3.4200e-003</b>	<b>0.4505</b>	<b>0.1186</b>	<b>3.1700e-003</b>	<b>0.1217</b>		<b>381.2393</b>	<b>381.2393</b>	<b>0.0185</b>		<b>381.6283</b>

### 3.5 Paving - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0169	9.7012	9.6251	0.0139		0.5996	0.5996		0.5528	0.5528		1,329.2895	1,329.2895	0.4188		1,338.0849
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0169</b>	<b>9.7012</b>	<b>9.6251</b>	<b>0.0139</b>		<b>0.5996</b>	<b>0.5996</b>		<b>0.5528</b>	<b>0.5528</b>		<b>1,329.2895</b>	<b>1,329.2895</b>	<b>0.4188</b>		<b>1,338.0849</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	0.1120	0.1488	1.5629	5.3000e-003	0.4471	3.4200e-003	0.4505	0.1186	3.1700e-003	0.1218		375.3226	375.3226	0.0177		375.6950
<b>Total</b>	<b>0.1120</b>	<b>0.1488</b>	<b>1.5629</b>	<b>5.3000e-003</b>	<b>0.4471</b>	<b>3.4200e-003</b>	<b>0.4505</b>	<b>0.1186</b>	<b>3.1700e-003</b>	<b>0.1218</b>		<b>375.3226</b>	<b>375.3226</b>	<b>0.0177</b>		<b>375.6950</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	0.2208	1.0702	10.2985	0.0139		0.0359	0.0359		0.0359	0.0359	0.0000	1,329.2895	1,329.2895	0.4188		1,338.0849
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2208</b>	<b>1.0702</b>	<b>10.2985</b>	<b>0.0139</b>		<b>0.0359</b>	<b>0.0359</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>1,329.2895</b>	<b>1,329.2895</b>	<b>0.4188</b>		<b>1,338.0849</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	0.1120	0.1488	1.5629	5.3000e-003	0.4471	3.4200e-003	0.4505	0.1186	3.1700e-003	0.1218		375.3226	375.3226	0.0177			375.6950
<b>Total</b>	<b>0.1120</b>	<b>0.1488</b>	<b>1.5629</b>	<b>5.3000e-003</b>	<b>0.4471</b>	<b>3.4200e-003</b>	<b>0.4505</b>	<b>0.1186</b>	<b>3.1700e-003</b>	<b>0.1218</b>		<b>375.3226</b>	<b>375.3226</b>	<b>0.0177</b>			<b>375.6950</b>

### 3.6 Architectural Coating - 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						
Archit. Coating	122.2583					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218			281.9057
<b>Total</b>	<b>122.5005</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>			<b>281.9057</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	0.2012	0.2706	2.8294	8.9900e-003	0.7601	5.8100e-003	0.7659	0.2016	5.3900e-003	0.2070		648.1068	648.1068	0.0315			648.7682
<b>Total</b>	<b>0.2012</b>	<b>0.2706</b>	<b>2.8294</b>	<b>8.9900e-003</b>	<b>0.7601</b>	<b>5.8100e-003</b>	<b>0.7659</b>	<b>0.2016</b>	<b>5.3900e-003</b>	<b>0.2070</b>		<b>648.1068</b>	<b>648.1068</b>	<b>0.0315</b>			<b>648.7682</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	122.2583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9057
<b>Total</b>	<b>122.2880</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9057</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	0.2012	0.2706	2.8294	8.9900e-003	0.7601	5.8100e-003	0.7659	0.2016	5.3900e-003	0.2070		648.1068	648.1068	0.0315		648.7682
<b>Total</b>	<b>0.2012</b>	<b>0.2706</b>	<b>2.8294</b>	<b>8.9900e-003</b>	<b>0.7601</b>	<b>5.8100e-003</b>	<b>0.7659</b>	<b>0.2016</b>	<b>5.3900e-003</b>	<b>0.2070</b>		<b>648.1068</b>	<b>648.1068</b>	<b>0.0315</b>		<b>648.7682</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	122.2583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.8537
<b>Total</b>	<b>122.4772</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.8537</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	0.1904	0.2530	2.6570	9.0100e-003	0.7601	5.8200e-003	0.7659	0.2016	5.4000e-003	0.2070		638.0485	638.0485	0.0302		638.6816
<b>Total</b>	<b>0.1904</b>	<b>0.2530</b>	<b>2.6570</b>	<b>9.0100e-003</b>	<b>0.7601</b>	<b>5.8200e-003</b>	<b>0.7659</b>	<b>0.2016</b>	<b>5.4000e-003</b>	<b>0.2070</b>		<b>638.0485</b>	<b>638.0485</b>	<b>0.0302</b>		<b>638.6816</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	122.2583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.8537
<b>Total</b>	<b>122.2880</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.8537</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	0.1904	0.2530	2.6570	9.0100e-003	0.7601	5.8200e-003	0.7659	0.2016	5.4000e-003	0.2070		638.0485	638.0485	0.0302		638.6816
<b>Total</b>	<b>0.1904</b>	<b>0.2530</b>	<b>2.6570</b>	<b>9.0100e-003</b>	<b>0.7601</b>	<b>5.8200e-003</b>	<b>0.7659</b>	<b>0.2016</b>	<b>5.4000e-003</b>	<b>0.2070</b>		<b>638.0485</b>	<b>638.0485</b>	<b>0.0302</b>		<b>638.6816</b>

# **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**

*Phase 2 Construction Emissions*

## Harbor UCLA Master Plan- Phase 2 South Coast Air Basin, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	130.00	1000sqft	2.98	130,000.00	0
Hospital	97.50	1000sqft	2.24	97,500.00	0
Hospital	2.40	1000sqft	0.06	2,400.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	114.00
tblConstructionPhase	NumDays	230.00	95.00
tblConstructionPhase	NumDays	230.00	108.00
tblConstructionPhase	NumDays	230.00	108.00
tblConstructionPhase	NumDays	230.00	202.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	20.00	93.00
tblConstructionPhase	PhaseEndDate	5/15/2024	12/7/2023

tblConstructionPhase	PhaseEndDate	1/27/2022	1/30/2022
tblConstructionPhase	PhaseEndDate	6/29/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	4/10/2023	12/7/2023
tblConstructionPhase	PhaseEndDate	4/16/2024	12/7/2023
tblConstructionPhase	PhaseStartDate	12/8/2023	7/1/2023
tblConstructionPhase	PhaseStartDate	8/31/2021	9/1/2021
tblConstructionPhase	PhaseStartDate	1/31/2022	2/1/2022
tblConstructionPhase	PhaseStartDate	7/1/2022	3/1/2023
tblConstructionPhase	PhaseStartDate	12/8/2023	8/1/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	38.00	40.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	455.00
tblTripsAndVMT	WorkerTripNumber	15.00	92.00
tblTripsAndVMT	WorkerTripNumber	13.00	80.00

## 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					
2021	2.6011	19.2975	27.5985	0.0699	3.2556	0.8984	4.1540	0.8681	0.8367	1.7048	0.0000	5,741.5043	5,741.5043	0.7637	0.0000	5,757.5423
2022	2.3519	14.9489	26.6939	0.0676	3.2556	0.6864	3.9419	0.8681	0.6454	1.5135	0.0000	5,426.3762	5,426.3762	0.6279	0.0000	5,439.5616
2023	51.1275	25.4813	51.8949	0.1367	7.2585	1.2389	8.4974	1.9299	1.1634	3.0933	0.0000	10,588.2764	10,588.2764	1.1860	0.0000	10,613.1815
<b>Total</b>	<b>56.0804</b>	<b>59.7276</b>	<b>106.1873</b>	<b>0.2742</b>	<b>13.7696</b>	<b>2.8237</b>	<b>16.5933</b>	<b>3.6660</b>	<b>2.6456</b>	<b>6.3116</b>	<b>0.0000</b>	<b>21,756.1568</b>	<b>21,756.1568</b>	<b>2.5776</b>	<b>0.0000</b>	<b>21,810.2853</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					
2021	1.2609	4.0147	28.8823	0.0699	3.2556	0.0960	3.3516	0.8681	0.0915	0.9595	0.0000	5,741.5043	5,741.5043	0.7637	0.0000	5,757.5423
2022	1.4328	4.9838	27.6054	0.0676	3.2556	0.1514	3.4070	0.8681	0.1469	1.0150	0.0000	5,426.3762	5,426.3762	0.6279	0.0000	5,439.5615
2023	49.4768	8.2440	53.5568	0.1367	7.2585	0.2676	7.5261	1.9299	0.2608	2.1907	0.0000	10,588.2764	10,588.2764	1.1860	0.0000	10,613.1815

Total	52.1705	17.2425	110.0445	0.2742	13.7696	0.5150	14.2847	3.6660	0.4992	4.1652	0.0000	21,756.1568	21,756.1568	2.5776	0.0000	21,810.2853
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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	6.97	71.13	-3.63	0.00	0.00	81.76	13.91	0.00	81.13	34.01	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/20/2021	4/19/2021	5	64	
2	Building Construction	Building Construction	4/20/2021	8/30/2021	5	95	
3	Building Construction 2	Building Construction	9/1/2021	1/30/2022	5	108	
4	Building Construction 3	Building Construction	2/1/2022	6/30/2022	5	108	
5	Building Construction 4	Building Construction	3/1/2023	12/7/2023	5	202	
6	Architectural Coating	Architectural Coating	7/1/2023	12/7/2023	5	114	
7	Paving	Paving	8/1/2023	12/7/2023	5	93	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 344,850; Non-Residential Outdoor: 114,950 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Building Construction 2	Air Compressors	1	8.00	78	0.48
Building Construction 2	Cranes	1	7.00	226	0.29
Building Construction 2	Forklifts	0	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 2	Welders	0	8.00	46	0.45
Building Construction 3	Air Compressors	1	8.00	78	0.48
Building Construction 3	Cranes	1	7.00	226	0.29
Building Construction 3	Forklifts	1	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 3	Welders	1	8.00	46	0.45
Building Construction 4	Air Compressors	1	8.00	78	0.48
Building Construction 4	Cranes	1	7.00	226	0.29
Building Construction 4	Forklifts	2	8.00	89	0.20
Building Construction 4	Generator Sets	0	8.00	84	0.74
Building Construction 4	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 4	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Paving	Trenchers	1	8.00	80	0.50
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### 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
Grading	2	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	4	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	7	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 4	8	455.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	92.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	80.00	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

Clean Paved Roads

### **3.2 Grading - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5235	5.6834	3.8274	9.2300e-003		0.2381	0.2381		0.2190	0.2190		894.2007	894.2007	0.2892		900.2739
<b>Total</b>	<b>0.5235</b>	<b>5.6834</b>	<b>3.8274</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>0.2381</b>	<b>0.2381</b>	<b>0.0000</b>	<b>0.2190</b>	<b>0.2190</b>		<b>894.2007</b>	<b>894.2007</b>	<b>0.2892</b>		<b>900.2739</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	0.0125	0.0993	0.1617	4.3000e-004	0.0125	1.8800e-003	0.0144	3.5600e-003	1.7300e-003	5.2900e-003		40.4419	40.4419	2.9000e-004		40.4480
Worker	0.0496	0.0611	0.7738	2.5500e-003	0.2012	1.5400e-003	0.2027	0.0534	1.4300e-003	0.0548		180.2215	180.2215	7.9800e-003		180.3891
<b>Total</b>	<b>0.0621</b>	<b>0.1604</b>	<b>0.9355</b>	<b>2.9800e-003</b>	<b>0.2137</b>	<b>3.4200e-003</b>	<b>0.2171</b>	<b>0.0569</b>	<b>3.1600e-003</b>	<b>0.0601</b>		<b>220.6634</b>	<b>220.6634</b>	<b>8.2700e-003</b>		<b>220.8371</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1138	0.4931	5.1218	9.2300e-003		0.0152	0.0152		0.0152	0.0152	0.0000	894.2007	894.2007	0.2892		900.2739
<b>Total</b>	<b>0.1138</b>	<b>0.4931</b>	<b>5.1218</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>0.0152</b>	<b>0.0152</b>	<b>0.0000</b>	<b>0.0152</b>	<b>0.0152</b>	<b>0.0000</b>	<b>894.2007</b>	<b>894.2007</b>	<b>0.2892</b>		<b>900.2739</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	0.0125	0.0993	0.1617	4.3000e-004	0.0125	1.8800e-003	0.0144	3.5600e-003	1.7300e-003	5.2900e-003		40.4419	40.4419	2.9000e-004		40.4480
Worker	0.0496	0.0611	0.7738	2.5500e-003	0.2012	1.5400e-003	0.2027	0.0534	1.4300e-003	0.0548		180.2215	180.2215	7.9800e-003		180.3891
<b>Total</b>	<b>0.0621</b>	<b>0.1604</b>	<b>0.9355</b>	<b>2.9800e-003</b>	<b>0.2137</b>	<b>3.4200e-003</b>	<b>0.2171</b>	<b>0.0569</b>	<b>3.1600e-003</b>	<b>0.0601</b>		<b>220.6634</b>	<b>220.6634</b>	<b>8.2700e-003</b>		<b>220.8371</b>

### 3.3 Building Construction - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6197	16.4941	12.9193	0.0235		0.8397	0.8397		0.7825	0.7825		2,269.7861	2,269.7861	0.6385		2,283.1942
<b>Total</b>	<b>1.6197</b>	<b>16.4941</b>	<b>12.9193</b>	<b>0.0235</b>		<b>0.8397</b>	<b>0.8397</b>		<b>0.7825</b>	<b>0.7825</b>		<b>2,269.7861</b>	<b>2,269.7861</b>	<b>0.6385</b>		<b>2,283.1942</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	0.2374	1.8873	3.0721	8.2000e-003	0.2376	0.0357	0.2733	0.0677	0.0328	0.1005		768.3962	768.3962	5.5300e-003		768.5123
Worker	0.7440	0.9161	11.6072	0.0382	3.0180	0.0231	3.0411	0.8004	0.0214	0.8218		2,703.3220	2,703.3220	0.1197		2,705.8358
<b>Total</b>	<b>0.9814</b>	<b>2.8034</b>	<b>14.6793</b>	<b>0.0464</b>	<b>3.2556</b>	<b>0.0588</b>	<b>3.3143</b>	<b>0.8681</b>	<b>0.0542</b>	<b>0.9223</b>		<b>3,471.7182</b>	<b>3,471.7182</b>	<b>0.1252</b>		<b>3,474.3481</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	0.2795	1.2113	14.2030	0.0235		0.0373	0.0373		0.0373	0.0373	0.0000	2,269.7861	2,269.7861	0.6385		2,283.1942
<b>Total</b>	<b>0.2795</b>	<b>1.2113</b>	<b>14.2030</b>	<b>0.0235</b>		<b>0.0373</b>	<b>0.0373</b>		<b>0.0373</b>	<b>0.0373</b>	<b>0.0000</b>	<b>2,269.7861</b>	<b>2,269.7861</b>	<b>0.6385</b>		<b>2,283.1942</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	0.2374	1.8873	3.0721	8.2000e-003	0.2376	0.0357	0.2733	0.0677	0.0328	0.1005		768.3962	768.3962	5.5300e-003		768.5123
Worker	0.7440	0.9161	11.6072	0.0382	3.0180	0.0231	3.0411	0.8004	0.0214	0.8218		2,703.3220	2,703.3220	0.1197		2,705.8358
<b>Total</b>	<b>0.9814</b>	<b>2.8034</b>	<b>14.6793</b>	<b>0.0464</b>	<b>3.2556</b>	<b>0.0588</b>	<b>3.3143</b>	<b>0.8681</b>	<b>0.0542</b>	<b>0.9223</b>		<b>3,471.7182</b>	<b>3,471.7182</b>	<b>0.1252</b>		<b>3,474.3481</b>

### 3.4 Building Construction 2 - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9731	9.5048	8.0763	0.0143		0.4896	0.4896		0.4605	0.4605		1,380.1534	1,380.1534	0.3508		1,387.5193
<b>Total</b>	<b>0.9731</b>	<b>9.5048</b>	<b>8.0763</b>	<b>0.0143</b>		<b>0.4896</b>	<b>0.4896</b>		<b>0.4605</b>	<b>0.4605</b>		<b>1,380.1534</b>	<b>1,380.1534</b>	<b>0.3508</b>		<b>1,387.5193</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	0.2374	1.8873	3.0721	8.2000e-003	0.2376	0.0357	0.2733	0.0677	0.0328	0.1005		768.3962	768.3962	5.5300e-003		768.5123
Worker	0.7440	0.9161	11.6072	0.0382	3.0180	0.0231	3.0411	0.8004	0.0214	0.8218		2,703.3220	2,703.3220	0.1197		2,705.8358
<b>Total</b>	<b>0.9814</b>	<b>2.8034</b>	<b>14.6793</b>	<b>0.0464</b>	<b>3.2556</b>	<b>0.0588</b>	<b>3.3143</b>	<b>0.8681</b>	<b>0.0542</b>	<b>0.9223</b>		<b>3,471.7182</b>	<b>3,471.7182</b>	<b>0.1252</b>		<b>3,474.3481</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	0.1668	0.7227	8.7670	0.0143		0.0222	0.0222		0.0222	0.0222	0.0000	1,380.1534	1,380.1534	0.3508		1,387.5193
<b>Total</b>	<b>0.1668</b>	<b>0.7227</b>	<b>8.7670</b>	<b>0.0143</b>		<b>0.0222</b>	<b>0.0222</b>		<b>0.0222</b>	<b>0.0222</b>	<b>0.0000</b>	<b>1,380.1534</b>	<b>1,380.1534</b>	<b>0.3508</b>		<b>1,387.5193</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	0.2374	1.8873	3.0721	8.2000e-003	0.2376	0.0357	0.2733	0.0677	0.0328	0.1005		768.3962	768.3962	5.5300e-003		768.5123
Worker	0.7440	0.9161	11.6072	0.0382	3.0180	0.0231	3.0411	0.8004	0.0214	0.8218		2,703.3220	2,703.3220	0.1197		2,705.8358
<b>Total</b>	<b>0.9814</b>	<b>2.8034</b>	<b>14.6793</b>	<b>0.0464</b>	<b>3.2556</b>	<b>0.0588</b>	<b>3.3143</b>	<b>0.8681</b>	<b>0.0542</b>	<b>0.9223</b>		<b>3,471.7182</b>	<b>3,471.7182</b>	<b>0.1252</b>		<b>3,474.3481</b>

## 3.4 Building Construction 2 - 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	0.8803	8.3923	7.9545	0.0144		0.4154	0.4154		0.3909	0.3909		1,380.8249	1,380.8249	0.3497		1,388.1675
<b>Total</b>	<b>0.8803</b>	<b>8.3923</b>	<b>7.9545</b>	<b>0.0144</b>		<b>0.4154</b>	<b>0.4154</b>		<b>0.3909</b>	<b>0.3909</b>		<b>1,380.8249</b>	<b>1,380.8249</b>	<b>0.3497</b>		<b>1,388.1675</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	0.2326	1.7130	3.0010	8.2000e-003	0.2376	0.0353	0.2729	0.0677	0.0324	0.1001		767.7037	767.7037	5.6500e-003		767.8224
Worker	0.7046	0.8596	10.9306	0.0382	3.0180	0.0231	3.0410	0.8004	0.0214	0.8218		2,658.7549	2,658.7549	0.1146		2,661.1620
<b>Total</b>	<b>0.9372</b>	<b>2.5726</b>	<b>13.9317</b>	<b>0.0464</b>	<b>3.2556</b>	<b>0.0583</b>	<b>3.3139</b>	<b>0.8681</b>	<b>0.0539</b>	<b>0.9219</b>		<b>3,426.4586</b>	<b>3,426.4586</b>	<b>0.1203</b>		<b>3,428.9844</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	0.1668	0.7227	8.7670	0.0144		0.0222	0.0222		0.0222	0.0222	0.0000	1,380.8249	1,380.8249	0.3497		1,388.1675
<b>Total</b>	<b>0.1668</b>	<b>0.7227</b>	<b>8.7670</b>	<b>0.0144</b>		<b>0.0222</b>	<b>0.0222</b>		<b>0.0222</b>	<b>0.0222</b>	<b>0.0000</b>	<b>1,380.8249</b>	<b>1,380.8249</b>	<b>0.3497</b>		<b>1,388.1675</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	0.2326	1.7130	3.0010	8.2000e-003	0.2376	0.0353	0.2729	0.0677	0.0324	0.1001		767.7037	767.7037	5.6500e-003		767.8224
Worker	0.7046	0.8596	10.9306	0.0382	3.0180	0.0231	3.0410	0.8004	0.0214	0.8218		2,658.7549	2,658.7549	0.1146		2,661.1620
<b>Total</b>	<b>0.9372</b>	<b>2.5726</b>	<b>13.9317</b>	<b>0.0464</b>	<b>3.2556</b>	<b>0.0583</b>	<b>3.3139</b>	<b>0.8681</b>	<b>0.0539</b>	<b>0.9219</b>		<b>3,426.4586</b>	<b>3,426.4586</b>	<b>0.1203</b>		<b>3,428.9844</b>

### 3.5 Building Construction 3 - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4147	12.3763	12.7623	0.0212		0.6280	0.6280		0.5916	0.5916		1,999.9175	1,999.9175	0.5076		2,010.5771
<b>Total</b>	<b>1.4147</b>	<b>12.3763</b>	<b>12.7623</b>	<b>0.0212</b>		<b>0.6280</b>	<b>0.6280</b>		<b>0.5916</b>	<b>0.5916</b>		<b>1,999.9175</b>	<b>1,999.9175</b>	<b>0.5076</b>		<b>2,010.5771</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	0.2326	1.7130	3.0010	8.2000e-003	0.2376	0.0353	0.2729	0.0677	0.0324	0.1001		767.7037	767.7037	5.6500e-003		767.8224
Worker	0.7046	0.8596	10.9306	0.0382	3.0180	0.0231	3.0410	0.8004	0.0214	0.8218		2,658.7549	2,658.7549	0.1146		2,661.1620
<b>Total</b>	<b>0.9372</b>	<b>2.5726</b>	<b>13.9317</b>	<b>0.0464</b>	<b>3.2556</b>	<b>0.0583</b>	<b>3.3139</b>	<b>0.8681</b>	<b>0.0539</b>	<b>0.9219</b>		<b>3,426.4586</b>	<b>3,426.4586</b>	<b>0.1203</b>		<b>3,428.9844</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	0.4956	2.4112	13.6737	0.0212		0.0931	0.0931		0.0931	0.0931	0.0000	1,999.9175	1,999.9175	0.5076		2,010.5771
<b>Total</b>	<b>0.4956</b>	<b>2.4112</b>	<b>13.6737</b>	<b>0.0212</b>		<b>0.0931</b>	<b>0.0931</b>		<b>0.0931</b>	<b>0.0931</b>	<b>0.0000</b>	<b>1,999.9175</b>	<b>1,999.9175</b>	<b>0.5076</b>		<b>2,010.5771</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	0.2326	1.7130	3.0010	8.2000e-003	0.2376	0.0353	0.2729	0.0677	0.0324	0.1001		767.7037	767.7037	5.6500e-003			767.8224
Worker	0.7046	0.8596	10.9306	0.0382	3.0180	0.0231	3.0410	0.8004	0.0214	0.8218		2,658.7549	2,658.7549	0.1146			2,661.1620
<b>Total</b>	<b>0.9372</b>	<b>2.5726</b>	<b>13.9317</b>	<b>0.0464</b>	<b>3.2556</b>	<b>0.0583</b>	<b>3.3139</b>	<b>0.8681</b>	<b>0.0539</b>	<b>0.9219</b>		<b>3,426.4586</b>	<b>3,426.4586</b>	<b>0.1203</b>			<b>3,428.9844</b>

**3.6 Building Construction 4 - 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	1.5353	12.4515	13.5355	0.0225		0.5924	0.5924		0.5614	0.5614		2,092.4232	2,092.4232	0.4889			2,102.6897
<b>Total</b>	<b>1.5353</b>	<b>12.4515</b>	<b>13.5355</b>	<b>0.0225</b>		<b>0.5924</b>	<b>0.5924</b>		<b>0.5614</b>	<b>0.5614</b>		<b>2,092.4232</b>	<b>2,092.4232</b>	<b>0.4889</b>			<b>2,102.6897</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	0.2267	1.4386	3.0306	8.5800e-003	0.2501	0.0366	0.2868	0.0712	0.0337	0.1050		804.2387	804.2387	5.3500e-003			804.3510
Worker	1.1248	1.3639	17.3795	0.0644	5.0858	0.0389	5.1247	1.3488	0.0361	1.3848		4,412.0386	4,412.0386	0.1856			4,415.9359
<b>Total</b>	<b>1.3515</b>	<b>2.8025</b>	<b>20.4100</b>	<b>0.0729</b>	<b>5.3360</b>	<b>0.0755</b>	<b>5.4115</b>	<b>1.4200</b>	<b>0.0698</b>	<b>1.4898</b>		<b>5,216.2772</b>	<b>5,216.2772</b>	<b>0.1909</b>			<b>5,220.2869</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	0.7134	3.7270	14.4460	0.0225		0.1375	0.1375		0.1375	0.1375	0.0000	2,092.4232	2,092.4232	0.4889		2,102.6897
<b>Total</b>	<b>0.7134</b>	<b>3.7270</b>	<b>14.4460</b>	<b>0.0225</b>		<b>0.1375</b>	<b>0.1375</b>		<b>0.1375</b>	<b>0.1375</b>	<b>0.0000</b>	<b>2,092.4232</b>	<b>2,092.4232</b>	<b>0.4889</b>		<b>2,102.6897</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	0.2267	1.4386	3.0306	8.5800e-003	0.2501	0.0366	0.2868	0.0712	0.0337	0.1050		804.2387	804.2387	5.3500e-003		804.3510
Worker	1.1248	1.3639	17.3795	0.0644	5.0858	0.0389	5.1247	1.3488	0.0361	1.3848		4,412.0386	4,412.0386	0.1856		4,415.9359
<b>Total</b>	<b>1.3515</b>	<b>2.8025</b>	<b>20.4100</b>	<b>0.0729</b>	<b>5.3360</b>	<b>0.0755</b>	<b>5.4115</b>	<b>1.4200</b>	<b>0.0698</b>	<b>1.4898</b>		<b>5,216.2772</b>	<b>5,216.2772</b>	<b>0.1909</b>		<b>5,220.2869</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.7363					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>46.9279</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</b>

**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	0.2274	0.2758	3.5141	0.0130	1.0283	7.8600e-003	1.0362	0.2727	7.2900e-003	0.2800		892.1045	892.1045	0.0375		892.8925
<b>Total</b>	<b>0.2274</b>	<b>0.2758</b>	<b>3.5141</b>	<b>0.0130</b>	<b>1.0283</b>	<b>7.8600e-003</b>	<b>1.0362</b>	<b>0.2727</b>	<b>7.2900e-003</b>	<b>0.2800</b>		<b>892.1045</b>	<b>892.1045</b>	<b>0.0375</b>		<b>892.8925</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	46.7363					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>46.7660</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</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	0.2274	0.2758	3.5141	0.0130	1.0283	7.8600e-003	1.0362	0.2727	7.2900e-003	0.2800		892.1045	892.1045	0.0375		892.8925
<b>Total</b>	<b>0.2274</b>	<b>0.2758</b>	<b>3.5141</b>	<b>0.0130</b>	<b>1.0283</b>	<b>7.8600e-003</b>	<b>1.0362</b>	<b>0.2727</b>	<b>7.2900e-003</b>	<b>0.2800</b>		<b>892.1045</b>	<b>892.1045</b>	<b>0.0375</b>		<b>892.8925</b>

### 3.8 Paving - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8875	8.4087	9.5685	0.0139		0.4855	0.4855		0.4478	0.4478		1,330.2804	1,330.2804	0.4192		1,339.0824
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8875</b>	<b>8.4087</b>	<b>9.5685</b>	<b>0.0139</b>		<b>0.4855</b>	<b>0.4855</b>		<b>0.4478</b>	<b>0.4478</b>		<b>1,330.2804</b>	<b>1,330.2804</b>	<b>0.4192</b>		<b>1,339.0824</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	0.1978	0.2398	3.0557	0.0113	0.8942	6.8300e-003	0.9011	0.2372	6.3400e-003	0.2435		775.7430	775.7430	0.0326		776.4283
<b>Total</b>	<b>0.1978</b>	<b>0.2398</b>	<b>3.0557</b>	<b>0.0113</b>	<b>0.8942</b>	<b>6.8300e-003</b>	<b>0.9011</b>	<b>0.2372</b>	<b>6.3400e-003</b>	<b>0.2435</b>		<b>775.7430</b>	<b>775.7430</b>	<b>0.0326</b>		<b>776.4283</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	0.2208	1.0702	10.2985	0.0139		0.0359	0.0359		0.0359	0.0359	0.0000	1,330.2804	1,330.2804	0.4192		1,339.0824
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2208</b>	<b>1.0702</b>	<b>10.2985</b>	<b>0.0139</b>		<b>0.0359</b>	<b>0.0359</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>1,330.2804</b>	<b>1,330.2804</b>	<b>0.4192</b>		<b>1,339.0824</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	0.1978	0.2398	3.0557	0.0113	0.8942	6.8300e-003	0.9011	0.2372	6.3400e-003	0.2435		775.7430	775.7430	0.0326		776.4283
<b>Total</b>	<b>0.1978</b>	<b>0.2398</b>	<b>3.0557</b>	<b>0.0113</b>	<b>0.8942</b>	<b>6.8300e-003</b>	<b>0.9011</b>	<b>0.2372</b>	<b>6.3400e-003</b>	<b>0.2435</b>		<b>775.7430</b>	<b>775.7430</b>	<b>0.0326</b>		<b>776.4283</b>

## Harbor UCLA Master Plan- Phase 2 South Coast Air Basin, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	130.00	1000sqft	2.98	130,000.00	0
Hospital	97.50	1000sqft	2.24	97,500.00	0
Hospital	2.40	1000sqft	0.06	2,400.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	114.00
tblConstructionPhase	NumDays	230.00	95.00
tblConstructionPhase	NumDays	230.00	108.00
tblConstructionPhase	NumDays	230.00	108.00
tblConstructionPhase	NumDays	230.00	202.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	20.00	93.00
tblConstructionPhase	PhaseEndDate	5/15/2024	12/7/2023

tblConstructionPhase	PhaseEndDate	1/27/2022	1/30/2022
tblConstructionPhase	PhaseEndDate	6/29/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	4/10/2023	12/7/2023
tblConstructionPhase	PhaseEndDate	4/16/2024	12/7/2023
tblConstructionPhase	PhaseStartDate	12/8/2023	7/1/2023
tblConstructionPhase	PhaseStartDate	8/31/2021	9/1/2021
tblConstructionPhase	PhaseStartDate	1/31/2022	2/1/2022
tblConstructionPhase	PhaseStartDate	7/1/2022	3/1/2023
tblConstructionPhase	PhaseStartDate	12/8/2023	8/1/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	38.00	40.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	270.00
tblTripsAndVMT	WorkerTripNumber	74.00	455.00
tblTripsAndVMT	WorkerTripNumber	15.00	92.00
tblTripsAndVMT	WorkerTripNumber	13.00	80.00

## 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					
2021	2.6327	19.4288	27.2680	0.0674	3.2556	0.8987	4.1543	0.8681	0.8370	1.7051	0.0000	5,565.0900	5,565.0900	0.7639	0.0000	5,581.1323
2022	2.3819	15.0704	26.3894	0.0651	3.2556	0.6866	3.9422	0.8681	0.6457	1.5138	0.0000	5,252.4182	5,252.4182	0.6281	0.0000	5,265.6080
2023	51.1716	25.6869	50.3631	0.1310	7.2585	1.2392	8.4977	1.9299	1.1637	3.0936	0.0000	10,197.6761	10,197.6761	1.1862	0.0000	10,222.5858
<b>Total</b>	<b>56.1861</b>	<b>60.1861</b>	<b>104.0204</b>	<b>0.2635</b>	<b>13.7696</b>	<b>2.8245</b>	<b>16.5941</b>	<b>3.6660</b>	<b>2.6463</b>	<b>6.3124</b>	<b>0.0000</b>	<b>21,015.1843</b>	<b>21,015.1843</b>	<b>2.5782</b>	<b>0.0000</b>	<b>21,069.3261</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					
2021	1.2925	4.1461	28.5517	0.0674	3.2556	0.0963	3.3519	0.8681	0.0917	0.9598	0.0000	5,565.0900	5,565.0900	0.7639	0.0000	5,581.1323
2022	1.4628	5.1053	27.3008	0.0651	3.2556	0.1517	3.4073	0.8681	0.1472	1.0152	0.0000	5,252.4182	5,252.4182	0.6281	0.0000	5,265.6080

2023	49.5210	8.4496	52.0250	0.1310	7.2585	0.2679	7.5264	1.9299	0.2610	2.1909	0.0000	10,197.6761	10,197.6761	1.1862	0.0000	10,222.5858
<b>Total</b>	<b>52.2762</b>	<b>17.7009</b>	<b>107.8775</b>	<b>0.2635</b>	<b>13.7696</b>	<b>0.5158</b>	<b>14.2855</b>	<b>3.6660</b>	<b>0.4999</b>	<b>4.1660</b>	<b>0.0000</b>	<b>21,015.1843</b>	<b>21,015.1843</b>	<b>2.5782</b>	<b>0.0000</b>	<b>21,069.3261</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>6.96</b>	<b>70.59</b>	<b>-3.71</b>	<b>0.00</b>	<b>0.00</b>	<b>81.74</b>	<b>13.91</b>	<b>0.00</b>	<b>81.11</b>	<b>34.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/20/2021	4/19/2021	5	64	
2	Building Construction	Building Construction	4/20/2021	8/30/2021	5	95	
3	Building Construction 2	Building Construction	9/1/2021	1/30/2022	5	108	
4	Building Construction 3	Building Construction	2/1/2022	6/30/2022	5	108	
5	Building Construction 4	Building Construction	3/1/2023	12/7/2023	5	202	
6	Architectural Coating	Architectural Coating	7/1/2023	12/7/2023	5	114	
7	Paving	Paving	8/1/2023	12/7/2023	5	93	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 344,850; Non-Residential Outdoor: 114,950 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36

Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Building Construction 2	Air Compressors	1	8.00	78	0.48
Building Construction 2	Cranes	1	7.00	226	0.29
Building Construction 2	Forklifts	0	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 2	Welders	0	8.00	46	0.45
Building Construction 3	Air Compressors	1	8.00	78	0.48
Building Construction 3	Cranes	1	7.00	226	0.29
Building Construction 3	Forklifts	1	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 3	Welders	1	8.00	46	0.45
Building Construction 4	Air Compressors	1	8.00	78	0.48
Building Construction 4	Cranes	1	7.00	226	0.29
Building Construction 4	Forklifts	2	8.00	89	0.20
Building Construction 4	Generator Sets	0	8.00	84	0.74
Building Construction 4	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 4	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50

### 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
Grading	2	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	4	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	7	270.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 4	8	455.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	92.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	80.00	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

Clean Paved Roads

### 3.2 Grading - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5235	5.6834	3.8274	9.2300e-003		0.2381	0.2381		0.2190	0.2190		894.2007	894.2007	0.2892		900.2739
<b>Total</b>	<b>0.5235</b>	<b>5.6834</b>	<b>3.8274</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>0.2381</b>	<b>0.2381</b>	<b>0.0000</b>	<b>0.2190</b>	<b>0.2190</b>		<b>894.2007</b>	<b>894.2007</b>	<b>0.2892</b>		<b>900.2739</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	0.0135	0.1016	0.1999	4.3000e-004	0.0125	1.8900e-003	0.0144	3.5600e-003	1.7400e-003	5.3000e-003		40.0988	40.0988	3.0000e-004		40.1051
Worker	0.0504	0.0670	0.7033	2.3900e-003	0.2012	1.5400e-003	0.2027	0.0534	1.4300e-003	0.0548		168.8952	168.8952	7.9800e-003		169.0628
<b>Total</b>	<b>0.0639</b>	<b>0.1686</b>	<b>0.9033</b>	<b>2.8200e-003</b>	<b>0.2137</b>	<b>3.4300e-003</b>	<b>0.2171</b>	<b>0.0569</b>	<b>3.1700e-003</b>	<b>0.0601</b>		<b>208.9939</b>	<b>208.9939</b>	<b>8.2800e-003</b>		<b>209.1679</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1138	0.4931	5.1218	9.2300e-003		0.0152	0.0152		0.0152	0.0152	0.0000	894.2007	894.2007	0.2892		900.2739
<b>Total</b>	<b>0.1138</b>	<b>0.4931</b>	<b>5.1218</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>0.0152</b>	<b>0.0152</b>	<b>0.0000</b>	<b>0.0152</b>	<b>0.0152</b>	<b>0.0000</b>	<b>894.2007</b>	<b>894.2007</b>	<b>0.2892</b>		<b>900.2739</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	0.0135	0.1016	0.1999	4.3000e-004	0.0125	1.8900e-003	0.0144	3.5600e-003	1.7400e-003	5.3000e-003		40.0988	40.0988	3.0000e-004		40.1051
Worker	0.0504	0.0670	0.7033	2.3900e-003	0.2012	1.5400e-003	0.2027	0.0534	1.4300e-003	0.0548		168.8952	168.8952	7.9800e-003		169.0628
<b>Total</b>	<b>0.0639</b>	<b>0.1686</b>	<b>0.9033</b>	<b>2.8200e-003</b>	<b>0.2137</b>	<b>3.4300e-003</b>	<b>0.2171</b>	<b>0.0569</b>	<b>3.1700e-003</b>	<b>0.0601</b>		<b>208.9939</b>	<b>208.9939</b>	<b>8.2800e-003</b>		<b>209.1679</b>

### 3.3 Building Construction - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6197	16.4941	12.9193	0.0235		0.8397	0.8397		0.7825	0.7825		2,269.7861	2,269.7861	0.6385		2,283.1942
<b>Total</b>	<b>1.6197</b>	<b>16.4941</b>	<b>12.9193</b>	<b>0.0235</b>		<b>0.8397</b>	<b>0.8397</b>		<b>0.7825</b>	<b>0.7825</b>		<b>2,269.7861</b>	<b>2,269.7861</b>	<b>0.6385</b>		<b>2,283.1942</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	0.2570	1.9303	3.7989	8.1500e-003	0.2376	0.0359	0.2735	0.0677	0.0331	0.1007		761.8762	761.8762	5.7300e-003		761.9966
Worker	0.7559	1.0045	10.5498	0.0358	3.0180	0.0231	3.0411	0.8004	0.0214	0.8218		2,533.4277	2,533.4277	0.1197		2,535.9415
<b>Total</b>	<b>1.0129</b>	<b>2.9348</b>	<b>14.3487</b>	<b>0.0439</b>	<b>3.2556</b>	<b>0.0590</b>	<b>3.3146</b>	<b>0.8681</b>	<b>0.0545</b>	<b>0.9225</b>		<b>3,295.3040</b>	<b>3,295.3040</b>	<b>0.1254</b>		<b>3,297.9381</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	0.2795	1.2113	14.2030	0.0235		0.0373	0.0373		0.0373	0.0373	0.0000	2,269.7861	2,269.7861	0.6385		2,283.1942
<b>Total</b>	<b>0.2795</b>	<b>1.2113</b>	<b>14.2030</b>	<b>0.0235</b>		<b>0.0373</b>	<b>0.0373</b>		<b>0.0373</b>	<b>0.0373</b>	<b>0.0000</b>	<b>2,269.7861</b>	<b>2,269.7861</b>	<b>0.6385</b>		<b>2,283.1942</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	0.2570	1.9303	3.7989	8.1500e-003	0.2376	0.0359	0.2735	0.0677	0.0331	0.1007		761.8762	761.8762	5.7300e-003		761.9966
Worker	0.7559	1.0045	10.5498	0.0358	3.0180	0.0231	3.0411	0.8004	0.0214	0.8218		2,533.4277	2,533.4277	0.1197		2,535.9415
<b>Total</b>	<b>1.0129</b>	<b>2.9348</b>	<b>14.3487</b>	<b>0.0439</b>	<b>3.2556</b>	<b>0.0590</b>	<b>3.3146</b>	<b>0.8681</b>	<b>0.0545</b>	<b>0.9225</b>		<b>3,295.3040</b>	<b>3,295.3040</b>	<b>0.1254</b>		<b>3,297.9381</b>

### 3.4 Building Construction 2 - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9731	9.5048	8.0763	0.0143		0.4896	0.4896		0.4605	0.4605		1,380.1534	1,380.1534	0.3508		1,387.5193
<b>Total</b>	<b>0.9731</b>	<b>9.5048</b>	<b>8.0763</b>	<b>0.0143</b>		<b>0.4896</b>	<b>0.4896</b>		<b>0.4605</b>	<b>0.4605</b>		<b>1,380.1534</b>	<b>1,380.1534</b>	<b>0.3508</b>		<b>1,387.5193</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	0.2570	1.9303	3.7989	8.1500e-003	0.2376	0.0359	0.2735	0.0677	0.0331	0.1007		761.8762	761.8762	5.7300e-003		761.9966
Worker	0.7559	1.0045	10.5498	0.0358	3.0180	0.0231	3.0411	0.8004	0.0214	0.8218		2,533.4277	2,533.4277	0.1197		2,535.9415
<b>Total</b>	<b>1.0129</b>	<b>2.9348</b>	<b>14.3487</b>	<b>0.0439</b>	<b>3.2556</b>	<b>0.0590</b>	<b>3.3146</b>	<b>0.8681</b>	<b>0.0545</b>	<b>0.9225</b>		<b>3,295.3040</b>	<b>3,295.3040</b>	<b>0.1254</b>		<b>3,297.9381</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	0.1668	0.7227	8.7670	0.0143		0.0222	0.0222		0.0222	0.0222	0.0000	1,380.1534	1,380.1534	0.3508		1,387.5193
<b>Total</b>	<b>0.1668</b>	<b>0.7227</b>	<b>8.7670</b>	<b>0.0143</b>		<b>0.0222</b>	<b>0.0222</b>		<b>0.0222</b>	<b>0.0222</b>	<b>0.0000</b>	<b>1,380.1534</b>	<b>1,380.1534</b>	<b>0.3508</b>		<b>1,387.5193</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	0.2570	1.9303	3.7989	8.1500e-003	0.2376	0.0359	0.2735	0.0677	0.0331	0.1007		761.8762	761.8762	5.7300e-003		761.9966
Worker	0.7559	1.0045	10.5498	0.0358	3.0180	0.0231	3.0411	0.8004	0.0214	0.8218		2,533.4277	2,533.4277	0.1197		2,535.9415
<b>Total</b>	<b>1.0129</b>	<b>2.9348</b>	<b>14.3487</b>	<b>0.0439</b>	<b>3.2556</b>	<b>0.0590</b>	<b>3.3146</b>	<b>0.8681</b>	<b>0.0545</b>	<b>0.9225</b>		<b>3,295.3040</b>	<b>3,295.3040</b>	<b>0.1254</b>		<b>3,297.9381</b>

**3.4 Building Construction 2 - 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	0.8803	8.3923	7.9545	0.0144		0.4154	0.4154		0.3909	0.3909		1,380.8249	1,380.8249	0.3497		1,388.1675
<b>Total</b>	<b>0.8803</b>	<b>8.3923</b>	<b>7.9545</b>	<b>0.0144</b>		<b>0.4154</b>	<b>0.4154</b>		<b>0.3909</b>	<b>0.3909</b>		<b>1,380.8249</b>	<b>1,380.8249</b>	<b>0.3497</b>		<b>1,388.1675</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	0.2513	1.7521	3.7100	8.1400e-003	0.2376	0.0355	0.2731	0.0677	0.0327	0.1004		761.1881	761.1881	5.8600e-003			761.3112
Worker	0.7159	0.9420	9.9171	0.0358	3.0180	0.0231	3.0410	0.8004	0.0214	0.8218		2,491.3126	2,491.3126	0.1146			2,493.7197
<b>Total</b>	<b>0.9672</b>	<b>2.6941</b>	<b>13.6271</b>	<b>0.0439</b>	<b>3.2556</b>	<b>0.0586</b>	<b>3.3142</b>	<b>0.8681</b>	<b>0.0541</b>	<b>0.9221</b>		<b>3,252.5007</b>	<b>3,252.5007</b>	<b>0.1205</b>			<b>3,255.0308</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	0.1668	0.7227	8.7670	0.0144		0.0222	0.0222		0.0222	0.0222	0.0000	1,380.8249	1,380.8249	0.3497			1,388.1675
<b>Total</b>	<b>0.1668</b>	<b>0.7227</b>	<b>8.7670</b>	<b>0.0144</b>		<b>0.0222</b>	<b>0.0222</b>		<b>0.0222</b>	<b>0.0222</b>	<b>0.0000</b>	<b>1,380.8249</b>	<b>1,380.8249</b>	<b>0.3497</b>			<b>1,388.1675</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	0.2513	1.7521	3.7100	8.1400e-003	0.2376	0.0355	0.2731	0.0677	0.0327	0.1004		761.1881	761.1881	5.8600e-003			761.3112
Worker	0.7159	0.9420	9.9171	0.0358	3.0180	0.0231	3.0410	0.8004	0.0214	0.8218		2,491.3126	2,491.3126	0.1146			2,493.7197
<b>Total</b>	<b>0.9672</b>	<b>2.6941</b>	<b>13.6271</b>	<b>0.0439</b>	<b>3.2556</b>	<b>0.0586</b>	<b>3.3142</b>	<b>0.8681</b>	<b>0.0541</b>	<b>0.9221</b>		<b>3,252.5007</b>	<b>3,252.5007</b>	<b>0.1205</b>			<b>3,255.0308</b>

### 3.5 Building Construction 3 - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4147	12.3763	12.7623	0.0212		0.6280	0.6280		0.5916	0.5916		1,999.9175	1,999.9175	0.5076			2,010.5771
<b>Total</b>	<b>1.4147</b>	<b>12.3763</b>	<b>12.7623</b>	<b>0.0212</b>		<b>0.6280</b>	<b>0.6280</b>		<b>0.5916</b>	<b>0.5916</b>		<b>1,999.9175</b>	<b>1,999.9175</b>	<b>0.5076</b>			<b>2,010.5771</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	0.2513	1.7521	3.7100	8.1400e-003	0.2376	0.0355	0.2731	0.0677	0.0327	0.1004		761.1881	761.1881	5.8600e-003			761.3112
Worker	0.7159	0.9420	9.9171	0.0358	3.0180	0.0231	3.0410	0.8004	0.0214	0.8218		2,491.3126	2,491.3126	0.1146			2,493.7197
<b>Total</b>	<b>0.9672</b>	<b>2.6941</b>	<b>13.6271</b>	<b>0.0439</b>	<b>3.2556</b>	<b>0.0586</b>	<b>3.3142</b>	<b>0.8681</b>	<b>0.0541</b>	<b>0.9221</b>		<b>3,252.5007</b>	<b>3,252.5007</b>	<b>0.1205</b>			<b>3,255.0308</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	0.4956	2.4112	13.6737	0.0212		0.0931	0.0931		0.0931	0.0931	0.0000	1,999.9175	1,999.9175	0.5076			2,010.5771
<b>Total</b>	<b>0.4956</b>	<b>2.4112</b>	<b>13.6737</b>	<b>0.0212</b>		<b>0.0931</b>	<b>0.0931</b>		<b>0.0931</b>	<b>0.0931</b>	<b>0.0000</b>	<b>1,999.9175</b>	<b>1,999.9175</b>	<b>0.5076</b>			<b>2,010.5771</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	0.2513	1.7521	3.7100	8.1400e-003	0.2376	0.0355	0.2731	0.0677	0.0327	0.1004		761.1881	761.1881	5.8600e-003		761.3112
Worker	0.7159	0.9420	9.9171	0.0358	3.0180	0.0231	3.0410	0.8004	0.0214	0.8218		2,491.3126	2,491.3126	0.1146		2,493.7197
<b>Total</b>	<b>0.9672</b>	<b>2.6941</b>	<b>13.6271</b>	<b>0.0439</b>	<b>3.2556</b>	<b>0.0586</b>	<b>3.3142</b>	<b>0.8681</b>	<b>0.0541</b>	<b>0.9221</b>		<b>3,252.5007</b>	<b>3,252.5007</b>	<b>0.1205</b>		<b>3,255.0308</b>

### 3.6 Building Construction 4 - 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	1.5353	12.4515	13.5355	0.0225		0.5924	0.5924		0.5614	0.5614		2,092.4232	2,092.4232	0.4889		2,102.6897
<b>Total</b>	<b>1.5353</b>	<b>12.4515</b>	<b>13.5355</b>	<b>0.0225</b>		<b>0.5924</b>	<b>0.5924</b>		<b>0.5614</b>	<b>0.5614</b>		<b>2,092.4232</b>	<b>2,092.4232</b>	<b>0.4889</b>		<b>2,102.6897</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	0.2456	1.4652	3.7602	8.5200e-003	0.2501	0.0369	0.2870	0.0712	0.0340	0.1052		797.3788	797.3788	5.5700e-003		797.4957
Worker	1.1431	1.4937	15.7384	0.0603	5.0858	0.0389	5.1247	1.3488	0.0361	1.3848		4,133.5666	4,133.5666	0.1856		4,137.4640
<b>Total</b>	<b>1.3887</b>	<b>2.9590</b>	<b>19.4986</b>	<b>0.0688</b>	<b>5.3360</b>	<b>0.0758</b>	<b>5.4117</b>	<b>1.4200</b>	<b>0.0700</b>	<b>1.4901</b>		<b>4,930.9454</b>	<b>4,930.9454</b>	<b>0.1912</b>		<b>4,934.9597</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	0.7134	3.7270	14.4460	0.0225		0.1375	0.1375		0.1375	0.1375	0.0000	2,092.4232	2,092.4232	0.4889		2,102.6897
<b>Total</b>	<b>0.7134</b>	<b>3.7270</b>	<b>14.4460</b>	<b>0.0225</b>		<b>0.1375</b>	<b>0.1375</b>		<b>0.1375</b>	<b>0.1375</b>	<b>0.0000</b>	<b>2,092.4232</b>	<b>2,092.4232</b>	<b>0.4889</b>		<b>2,102.6897</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	0.2456	1.4652	3.7602	8.5200e-003	0.2501	0.0369	0.2870	0.0712	0.0340	0.1052		797.3788	797.3788	5.5700e-003		797.4957
Worker	1.1431	1.4937	15.7384	0.0603	5.0858	0.0389	5.1247	1.3488	0.0361	1.3848		4,133.5666	4,133.5666	0.1856		4,137.4640
<b>Total</b>	<b>1.3887</b>	<b>2.9590</b>	<b>19.4986</b>	<b>0.0688</b>	<b>5.3360</b>	<b>0.0758</b>	<b>5.4117</b>	<b>1.4200</b>	<b>0.0700</b>	<b>1.4901</b>		<b>4,930.9454</b>	<b>4,930.9454</b>	<b>0.1912</b>		<b>4,934.9597</b>

### **3.7 Architectural Coating - 2023**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.7363					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>46.9279</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</b>

**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	0.2311	0.3020	3.1823	0.0122	1.0283	7.8600e-003	1.0362	0.2727	7.2900e-003	0.2800		835.7981	835.7981	0.0375			836.5861
<b>Total</b>	<b>0.2311</b>	<b>0.3020</b>	<b>3.1823</b>	<b>0.0122</b>	<b>1.0283</b>	<b>7.8600e-003</b>	<b>1.0362</b>	<b>0.2727</b>	<b>7.2900e-003</b>	<b>0.2800</b>		<b>835.7981</b>	<b>835.7981</b>	<b>0.0375</b>			<b>836.5861</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	46.7363					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>46.7660</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</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	0.2311	0.3020	3.1823	0.0122	1.0283	7.8600e-003	1.0362	0.2727	7.2900e-003	0.2800		835.7981	835.7981	0.0375			836.5861
<b>Total</b>	<b>0.2311</b>	<b>0.3020</b>	<b>3.1823</b>	<b>0.0122</b>	<b>1.0283</b>	<b>7.8600e-003</b>	<b>1.0362</b>	<b>0.2727</b>	<b>7.2900e-003</b>	<b>0.2800</b>		<b>835.7981</b>	<b>835.7981</b>	<b>0.0375</b>			<b>836.5861</b>

### 3.8 Paving - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8875	8.4087	9.5685	0.0139		0.4855	0.4855		0.4478	0.4478		1,330.2804	1,330.2804	0.4192		1,339.0824
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8875</b>	<b>8.4087</b>	<b>9.5685</b>	<b>0.0139</b>		<b>0.4855</b>	<b>0.4855</b>		<b>0.4478</b>	<b>0.4478</b>		<b>1,330.2804</b>	<b>1,330.2804</b>	<b>0.4192</b>		<b>1,339.0824</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	0.2010	0.2626	2.7672	0.0106	0.8942	6.8300e-003	0.9011	0.2372	6.3400e-003	0.2435		726.7809	726.7809	0.0326		727.4662
<b>Total</b>	<b>0.2010</b>	<b>0.2626</b>	<b>2.7672</b>	<b>0.0106</b>	<b>0.8942</b>	<b>6.8300e-003</b>	<b>0.9011</b>	<b>0.2372</b>	<b>6.3400e-003</b>	<b>0.2435</b>		<b>726.7809</b>	<b>726.7809</b>	<b>0.0326</b>		<b>727.4662</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	0.2208	1.0702	10.2985	0.0139		0.0359	0.0359		0.0359	0.0359	0.0000	1,330.2804	1,330.2804	0.4192		1,339.0824
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2208</b>	<b>1.0702</b>	<b>10.2985</b>	<b>0.0139</b>		<b>0.0359</b>	<b>0.0359</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>1,330.2804</b>	<b>1,330.2804</b>	<b>0.4192</b>		<b>1,339.0824</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	0.2010	0.2626	2.7672	0.0106	0.8942	6.8300e-003	0.9011	0.2372	6.3400e-003	0.2435		726.7809	726.7809	0.0326		727.4662
<b>Total</b>	<b>0.2010</b>	<b>0.2626</b>	<b>2.7672</b>	<b>0.0106</b>	<b>0.8942</b>	<b>6.8300e-003</b>	<b>0.9011</b>	<b>0.2372</b>	<b>6.3400e-003</b>	<b>0.2435</b>		<b>726.7809</b>	<b>726.7809</b>	<b>0.0326</b>		<b>727.4662</b>

## **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**

*Phase 3 Construction Emissions*

## Harbor UCLA Master Plan- Phase 3 South Coast Air Basin, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0
Unenclosed Parking with Elevator	580.00	Space	5.22	250,580.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11	<b>Operational Year</b>	2014		
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Demolition -

Grading -

Architectural Coating - Parking Lot- 6% of square footage= Interior Area

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	62.00

tblConstructionPhase	NumDays	230.00	355.00
tblConstructionPhase	NumDays	20.00	221.00
tblConstructionPhase	NumDays	20.00	121.00
tblConstructionPhase	NumDays	20.00	62.00
tblConstructionPhase	PhaseEndDate	6/22/2023	3/28/2023
tblConstructionPhase	PhaseEndDate	5/4/2022	11/16/2021
tblConstructionPhase	PhaseEndDate	6/22/2023	3/28/2023
tblConstructionPhase	PhaseStartDate	3/29/2023	1/1/2023
tblConstructionPhase	PhaseStartDate	11/17/2021	6/1/2021
tblConstructionPhase	PhaseStartDate	3/29/2023	1/1/2023
tblGrading	MaterialExported	0.00	18,052.00
tblGrading	MaterialImported	0.00	30,126.00
tblLandUse	LandUseSquareFeet	232,000.00	250,580.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblTripsAndVMT	HaulingTripNumber	201.00	3,859.00
tblTripsAndVMT	HaulingTripNumber	6,022.00	8,030.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	140.00
tblTripsAndVMT	WorkerTripNumber	10.00	280.00



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/12/2021	11/16/2021	5	221	
2	Grading	Grading	6/1/2021	11/16/2021	5	121	
3	Building Construction	Building Construction	11/17/2021	3/28/2023	5	355	
4	Paving	Paving	1/1/2023	3/28/2023	5	62	
5	Architectural Coating	Architectural Coating	1/1/2023	3/28/2023	5	62	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 60.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 390,870; Non-Residential Outdoor: 130,290 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20

Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	140.00	2.00	3,859.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	280.00	2.00	8,030.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	715.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	48.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	80.00	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

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					0.1966	0.0000	0.1966	0.0298	0.0000	0.0298			0.0000			0.0000
Off-Road	2.7882	26.8993	26.3204	0.0422		1.3324	1.3324		1.2535	1.2535		4,055.8690	4,055.8690	0.9972		4,076.8106
<b>Total</b>	<b>2.7882</b>	<b>26.8993</b>	<b>26.3204</b>	<b>0.0422</b>	<b>0.1966</b>	<b>1.3324</b>	<b>1.5290</b>	<b>0.0298</b>	<b>1.2535</b>	<b>1.2833</b>		<b>4,055.8690</b>	<b>4,055.8690</b>	<b>0.9972</b>		<b>4,076.8106</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	0.2648	3.0062	3.0476	0.0128	0.3044	0.0672	0.3716	0.0834	0.0619	0.1452		1,204.0587	1,204.0587	9.3700e-003		1,204.2555
Vendor	0.0125	0.0993	0.1617	4.3000e-004	0.0125	1.8800e-003	0.0144	3.5600e-003	1.7300e-003	5.2900e-003		40.4419	40.4419	2.9000e-004		40.4480
Worker	0.3858	0.4750	6.0186	0.0198	1.5649	0.0120	1.5769	0.4150	0.0111	0.4261		1,401.7225	1,401.7225	0.0621		1,403.0260
<b>Total</b>	<b>0.6630</b>	<b>3.5806</b>	<b>9.2278</b>	<b>0.0330</b>	<b>1.8817</b>	<b>0.0811</b>	<b>1.9628</b>	<b>0.5019</b>	<b>0.0747</b>	<b>0.5766</b>		<b>2,646.2231</b>	<b>2,646.2231</b>	<b>0.0717</b>		<b>2,647.7295</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0767	0.0000	0.0767	0.0116	0.0000	0.0116			0.0000			0.0000
Off-Road	0.4880	2.1146	25.4982	0.0422		0.0651	0.0651		0.0651	0.0651	0.0000	4,055.8690	4,055.8690	0.9972		4,076.8106
<b>Total</b>	<b>0.4880</b>	<b>2.1146</b>	<b>25.4982</b>	<b>0.0422</b>	<b>0.0767</b>	<b>0.0651</b>	<b>0.1417</b>	<b>0.0116</b>	<b>0.0651</b>	<b>0.0767</b>	<b>0.0000</b>	<b>4,055.8690</b>	<b>4,055.8690</b>	<b>0.9972</b>		<b>4,076.8106</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	0.2648	3.0062	3.0476	0.0128	0.3044	0.0672	0.3716	0.0834	0.0619	0.1452		1,204.0587	1,204.0587	9.3700e-003		1,204.2555
Vendor	0.0125	0.0993	0.1617	4.3000e-004	0.0125	1.8800e-003	0.0144	3.5600e-003	1.7300e-003	5.2900e-003		40.4419	40.4419	2.9000e-004		40.4480
Worker	0.3858	0.4750	6.0186	0.0198	1.5649	0.0120	1.5769	0.4150	0.0111	0.4261		1,401.7225	1,401.7225	0.0621		1,403.0260
<b>Total</b>	<b>0.6630</b>	<b>3.5806</b>	<b>9.2278</b>	<b>0.0330</b>	<b>1.8817</b>	<b>0.0811</b>	<b>1.9628</b>	<b>0.5019</b>	<b>0.0747</b>	<b>0.5766</b>		<b>2,646.2231</b>	<b>2,646.2231</b>	<b>0.0717</b>		<b>2,647.7295</b>

### 3.3 Grading - 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					
Fugitive Dust					6.5974	0.0000	6.5974	3.3743	0.0000	3.3743			0.0000			0.0000
Off-Road	1.8959	19.0213	16.2682	0.0213		0.9807	0.9807		0.9023	0.9023		2,065.5797	2,065.5797	0.6681		2,079.6088
<b>Total</b>	<b>1.8959</b>	<b>19.0213</b>	<b>16.2682</b>	<b>0.0213</b>	<b>6.5974</b>	<b>0.9807</b>	<b>7.5781</b>	<b>3.3743</b>	<b>0.9023</b>	<b>4.2766</b>		<b>2,065.5797</b>	<b>2,065.5797</b>	<b>0.6681</b>		<b>2,079.6088</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	1.0062	11.4253	11.5825	0.0487	1.1568	0.2555	1.4123	0.3168	0.2351	0.5519		4,576.0982	4,576.0982	0.0356		4,576.8461
Vendor	0.0125	0.0993	0.1617	4.3000e-004	0.0125	1.8800e-003	0.0144	3.5600e-003	1.7300e-003	5.2900e-003		40.4419	40.4419	2.9000e-004		40.4480
Worker	0.7715	0.9501	12.0371	0.0396	3.1297	0.0240	3.1537	0.8300	0.0222	0.8522		2,803.4450	2,803.4450	0.1241		2,806.0519
<b>Total</b>	<b>1.7902</b>	<b>12.4747</b>	<b>23.7813</b>	<b>0.0887</b>	<b>4.2990</b>	<b>0.2814</b>	<b>4.5803</b>	<b>1.1504</b>	<b>0.2590</b>	<b>1.4094</b>		<b>7,419.9851</b>	<b>7,419.9851</b>	<b>0.1600</b>		<b>7,423.3460</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					2.5730	0.0000	2.5730	1.3160	0.0000	1.3160			0.0000				0.0000
Off-Road	0.2594	1.1240	13.2973	0.0213		0.0346	0.0346		0.0346	0.0346	0.0000	2,065.5797	2,065.5797	0.6681			2,079.6088
<b>Total</b>	<b>0.2594</b>	<b>1.1240</b>	<b>13.2973</b>	<b>0.0213</b>	<b>2.5730</b>	<b>0.0346</b>	<b>2.6076</b>	<b>1.3160</b>	<b>0.0346</b>	<b>1.3506</b>	<b>0.0000</b>	<b>2,065.5797</b>	<b>2,065.5797</b>	<b>0.6681</b>			<b>2,079.6088</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	1.0062	11.4253	11.5825	0.0487	1.1568	0.2555	1.4123	0.3168	0.2351	0.5519		4,576.0982	4,576.0982	0.0356			4,576.8461
Vendor	0.0125	0.0993	0.1617	4.3000e-004	0.0125	1.8800e-003	0.0144	3.5600e-003	1.7300e-003	5.2900e-003		40.4419	40.4419	2.9000e-004			40.4480
Worker	0.7715	0.9501	12.0371	0.0396	3.1297	0.0240	3.1537	0.8300	0.0222	0.8522		2,803.4450	2,803.4450	0.1241			2,806.0519
<b>Total</b>	<b>1.7902</b>	<b>12.4747</b>	<b>23.7813</b>	<b>0.0887</b>	<b>4.2990</b>	<b>0.2814</b>	<b>4.5803</b>	<b>1.1504</b>	<b>0.2590</b>	<b>1.4094</b>		<b>7,419.9851</b>	<b>7,419.9851</b>	<b>0.1600</b>			<b>7,423.3460</b>

## 3.4 Building Construction - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1719	10.5252	8.8479	0.0152		0.5363	0.5363		0.5004	0.5004		1,410.9143	1,410.9143	0.4051			1,419.4222
<b>Total</b>	<b>1.1719</b>	<b>10.5252</b>	<b>8.8479</b>	<b>0.0152</b>		<b>0.5363</b>	<b>0.5363</b>		<b>0.5004</b>	<b>0.5004</b>		<b>1,410.9143</b>	<b>1,410.9143</b>	<b>0.4051</b>			<b>1,419.4222</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	0.2686	2.1356	3.4763	9.2800e-003	0.2689	0.0403	0.3092	0.0766	0.0371	0.1137		869.5009	869.5009	6.2600e-003			869.6324
Worker	1.9701	2.4260	30.7376	0.1012	7.9920	0.0612	8.0532	2.1195	0.0567	2.1763		7,158.7972	7,158.7972	0.3170			7,165.4540
<b>Total</b>	<b>2.2388</b>	<b>4.5616</b>	<b>34.2139</b>	<b>0.1105</b>	<b>8.2609</b>	<b>0.1015</b>	<b>8.3624</b>	<b>2.1961</b>	<b>0.0938</b>	<b>2.2899</b>		<b>8,028.2981</b>	<b>8,028.2981</b>	<b>0.3233</b>			<b>8,035.0864</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	0.5074	2.5097	9.5125	0.0152		0.1079	0.1079		0.1079	0.1079	0.0000	1,410.9143	1,410.9143	0.4051			1,419.4222
<b>Total</b>	<b>0.5074</b>	<b>2.5097</b>	<b>9.5125</b>	<b>0.0152</b>		<b>0.1079</b>	<b>0.1079</b>		<b>0.1079</b>	<b>0.1079</b>	<b>0.0000</b>	<b>1,410.9143</b>	<b>1,410.9143</b>	<b>0.4051</b>			<b>1,419.4222</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	0.2686	2.1356	3.4763	9.2800e-003	0.2689	0.0403	0.3092	0.0766	0.0371	0.1137		869.5009	869.5009	6.2600e-003			869.6324
Worker	1.9701	2.4260	30.7376	0.1012	7.9920	0.0612	8.0532	2.1195	0.0567	2.1763		7,158.7972	7,158.7972	0.3170			7,165.4540
<b>Total</b>	<b>2.2388</b>	<b>4.5616</b>	<b>34.2139</b>	<b>0.1105</b>	<b>8.2609</b>	<b>0.1015</b>	<b>8.3624</b>	<b>2.1961</b>	<b>0.0938</b>	<b>2.2899</b>		<b>8,028.2981</b>	<b>8,028.2981</b>	<b>0.3233</b>			<b>8,035.0864</b>

### 3.4 Building Construction - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0566	9.4003	8.6944	0.0152		0.4545	0.4545		0.4244	0.4244		1,411.5857	1,411.5857	0.4032		1,420.0522
<b>Total</b>	<b>1.0566</b>	<b>9.4003</b>	<b>8.6944</b>	<b>0.0152</b>		<b>0.4545</b>	<b>0.4545</b>		<b>0.4244</b>	<b>0.4244</b>		<b>1,411.5857</b>	<b>1,411.5857</b>	<b>0.4032</b>		<b>1,420.0522</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	0.2632	1.9384	3.3959	9.2700e-003	0.2689	0.0399	0.3088	0.0766	0.0367	0.1133		868.7174	868.7174	6.3900e-003		868.8516
Worker	1.8659	2.2763	28.9459	0.1012	7.9920	0.0611	8.0531	2.1195	0.0567	2.1762		7,040.7770	7,040.7770	0.3035		7,047.1513
<b>Total</b>	<b>2.1291</b>	<b>4.2147</b>	<b>32.3418</b>	<b>0.1104</b>	<b>8.2609</b>	<b>0.1010</b>	<b>8.3619</b>	<b>2.1961</b>	<b>0.0934</b>	<b>2.2895</b>		<b>7,909.4943</b>	<b>7,909.4943</b>	<b>0.3099</b>		<b>7,916.0030</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	0.4815	2.4637	9.4896	0.0152		0.0977	0.0977		0.0977	0.0977	0.0000	1,411.5857	1,411.5857	0.4032		1,420.0522
<b>Total</b>	<b>0.4815</b>	<b>2.4637</b>	<b>9.4896</b>	<b>0.0152</b>		<b>0.0977</b>	<b>0.0977</b>		<b>0.0977</b>	<b>0.0977</b>	<b>0.0000</b>	<b>1,411.5857</b>	<b>1,411.5857</b>	<b>0.4032</b>		<b>1,420.0522</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	0.2632	1.9384	3.3959	9.2700e-003	0.2689	0.0399	0.3088	0.0766	0.0367	0.1133		868.7174	868.7174	6.3900e-003		868.8516
Worker	1.8659	2.2763	28.9459	0.1012	7.9920	0.0611	8.0531	2.1195	0.0567	2.1762		7,040.7770	7,040.7770	0.3035		7,047.1513
<b>Total</b>	<b>2.1291</b>	<b>4.2147</b>	<b>32.3418</b>	<b>0.1104</b>	<b>8.2609</b>	<b>0.1010</b>	<b>8.3619</b>	<b>2.1961</b>	<b>0.0934</b>	<b>2.2895</b>		<b>7,909.4943</b>	<b>7,909.4943</b>	<b>0.3099</b>		<b>7,916.0030</b>

### **3.4 Building Construction - 2023**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9815	8.7022	8.6063	0.0152		0.3978	0.3978		0.3716	0.3716		1,412.1669	1,412.1669	0.4012		1,420.5913
<b>Total</b>	<b>0.9815</b>	<b>8.7022</b>	<b>8.6063</b>	<b>0.0152</b>		<b>0.3978</b>	<b>0.3978</b>		<b>0.3716</b>	<b>0.3716</b>		<b>1,412.1669</b>	<b>1,412.1669</b>	<b>0.4012</b>		<b>1,420.5913</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	0.2437	1.5465	3.2578	9.2300e-003	0.2689	0.0394	0.3083	0.0766	0.0362	0.1128		864.5566	864.5566	5.7500e-003		864.6773
Worker	1.7676	2.1433	27.3106	0.1011	7.9920	0.0611	8.0531	2.1195	0.0567	2.1762		6,933.2035	6,933.2035	0.2916		6,939.3279
<b>Total</b>	<b>2.0113</b>	<b>3.6897</b>	<b>30.5684</b>	<b>0.1104</b>	<b>8.2609</b>	<b>0.1005</b>	<b>8.3614</b>	<b>2.1961</b>	<b>0.0929</b>	<b>2.2890</b>		<b>7,797.7600</b>	<b>7,797.7600</b>	<b>0.2974</b>		<b>7,804.0052</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	0.4592	2.4213	9.4716	0.0152		0.0889	0.0889		0.0889	0.0889	0.0000	1,412.1669	1,412.1669	0.4012			1,420.5913
<b>Total</b>	<b>0.4592</b>	<b>2.4213</b>	<b>9.4716</b>	<b>0.0152</b>		<b>0.0889</b>	<b>0.0889</b>		<b>0.0889</b>	<b>0.0889</b>	<b>0.0000</b>	<b>1,412.1669</b>	<b>1,412.1669</b>	<b>0.4012</b>			<b>1,420.5913</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	0.2437	1.5465	3.2578	9.2300e-003	0.2689	0.0394	0.3083	0.0766	0.0362	0.1128		864.5566	864.5566	5.7500e-003			864.6773
Worker	1.7676	2.1433	27.3106	0.1011	7.9920	0.0611	8.0531	2.1195	0.0567	2.1762		6,933.2035	6,933.2035	0.2916			6,939.3279
<b>Total</b>	<b>2.0113</b>	<b>3.6897</b>	<b>30.5684</b>	<b>0.1104</b>	<b>8.2609</b>	<b>0.1005</b>	<b>8.3614</b>	<b>2.1961</b>	<b>0.0929</b>	<b>2.2890</b>		<b>7,797.7600</b>	<b>7,797.7600</b>	<b>0.2974</b>			<b>7,804.0052</b>

### 3.5 Paving - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.8875	8.4087	9.5685	0.0139		0.4855	0.4855		0.4478	0.4478		1,330.2804	1,330.2804	0.4192			1,339.0824
Paving	9.7200e-003					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>0.8973</b>	<b>8.4087</b>	<b>9.5685</b>	<b>0.0139</b>		<b>0.4855</b>	<b>0.4855</b>		<b>0.4478</b>	<b>0.4478</b>		<b>1,330.2804</b>	<b>1,330.2804</b>	<b>0.4192</b>			<b>1,339.0824</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	0.1187	0.1439	1.8334	6.7900e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8000e-003	0.1461		465.4458	465.4458	0.0196		465.8570
<b>Total</b>	<b>0.1187</b>	<b>0.1439</b>	<b>1.8334</b>	<b>6.7900e-003</b>	<b>0.5365</b>	<b>4.1000e-003</b>	<b>0.5406</b>	<b>0.1423</b>	<b>3.8000e-003</b>	<b>0.1461</b>		<b>465.4458</b>	<b>465.4458</b>	<b>0.0196</b>		<b>465.8570</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	0.2208	1.0702	10.2985	0.0139		0.0359	0.0359		0.0359	0.0359	0.0000	1,330.2804	1,330.2804	0.4192		1,339.0824
Paving	9.7200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2305</b>	<b>1.0702</b>	<b>10.2985</b>	<b>0.0139</b>		<b>0.0359</b>	<b>0.0359</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>1,330.2804</b>	<b>1,330.2804</b>	<b>0.4192</b>		<b>1,339.0824</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	0.1187	0.1439	1.8334	6.7900e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8000e-003	0.1461		465.4458	465.4458	0.0196		465.8570
<b>Total</b>	<b>0.1187</b>	<b>0.1439</b>	<b>1.8334</b>	<b>6.7900e-003</b>	<b>0.5365</b>	<b>4.1000e-003</b>	<b>0.5406</b>	<b>0.1423</b>	<b>3.8000e-003</b>	<b>0.1461</b>		<b>465.4458</b>	<b>465.4458</b>	<b>0.0196</b>		<b>465.8570</b>

### 3.6 Architectural Coating - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	97.4023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>97.5939</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</b>

#### 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	0.1978	0.2398	3.0557	0.0113	0.8942	6.8300e-003	0.9011	0.2372	6.3400e-003	0.2435		775.7430	775.7430	0.0326		776.4283
<b>Total</b>	<b>0.1978</b>	<b>0.2398</b>	<b>3.0557</b>	<b>0.0113</b>	<b>0.8942</b>	<b>6.8300e-003</b>	<b>0.9011</b>	<b>0.2372</b>	<b>6.3400e-003</b>	<b>0.2435</b>		<b>775.7430</b>	<b>775.7430</b>	<b>0.0326</b>		<b>776.4283</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	97.4023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>97.4320</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</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	0.1978	0.2398	3.0557	0.0113	0.8942	6.8300e-003	0.9011	0.2372	6.3400e-003	0.2435		775.7430	775.7430	0.0326		776.4283
<b>Total</b>	<b>0.1978</b>	<b>0.2398</b>	<b>3.0557</b>	<b>0.0113</b>	<b>0.8942</b>	<b>6.8300e-003</b>	<b>0.9011</b>	<b>0.2372</b>	<b>6.3400e-003</b>	<b>0.2435</b>		<b>775.7430</b>	<b>775.7430</b>	<b>0.0326</b>		<b>776.4283</b>

## Harbor UCLA Master Plan- Phase 3 South Coast Air Basin, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0
Unenclosed Parking with Elevator	580.00	Space	5.22	250,580.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Demolition -

Grading -

Architectural Coating - Parking Lot- 6% of square footage= Interior Area

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	62.00

tblConstructionPhase	NumDays	230.00	355.00
tblConstructionPhase	NumDays	20.00	221.00
tblConstructionPhase	NumDays	20.00	121.00
tblConstructionPhase	NumDays	20.00	62.00
tblConstructionPhase	PhaseEndDate	6/22/2023	3/28/2023
tblConstructionPhase	PhaseEndDate	5/4/2022	11/16/2021
tblConstructionPhase	PhaseEndDate	6/22/2023	3/28/2023
tblConstructionPhase	PhaseStartDate	3/29/2023	1/1/2023
tblConstructionPhase	PhaseStartDate	11/17/2021	6/1/2021
tblConstructionPhase	PhaseStartDate	3/29/2023	1/1/2023
tblGrading	MaterialExported	0.00	18,052.00
tblGrading	MaterialImported	0.00	30,126.00
tblLandUse	LandUseSquareFeet	232,000.00	250,580.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblTripsAndVMT	HaulingTripNumber	201.00	3,859.00
tblTripsAndVMT	HaulingTripNumber	6,022.00	8,030.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	140.00
tblTripsAndVMT	WorkerTripNumber	10.00	280.00



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/12/2021	11/16/2021	5	221	
2	Grading	Grading	6/1/2021	11/16/2021	5	121	
3	Building Construction	Building Construction	11/17/2021	3/28/2023	5	355	
4	Paving	Paving	1/1/2023	3/28/2023	5	62	
5	Architectural Coating	Architectural Coating	1/1/2023	3/28/2023	5	62	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 60.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 390,870; Non-Residential Outdoor: 130,290 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20

Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	140.00	2.00	3,859.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	280.00	2.00	8,030.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	715.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	48.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	80.00	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

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					0.1966	0.0000	0.1966	0.0298	0.0000	0.0298			0.0000			0.0000
Off-Road	2.7882	26.8993	26.3204	0.0422		1.3324	1.3324		1.2535	1.2535		4,055.8690	4,055.8690	0.9972		4,076.8106
<b>Total</b>	<b>2.7882</b>	<b>26.8993</b>	<b>26.3204</b>	<b>0.0422</b>	<b>0.1966</b>	<b>1.3324</b>	<b>1.5290</b>	<b>0.0298</b>	<b>1.2535</b>	<b>1.2833</b>		<b>4,055.8690</b>	<b>4,055.8690</b>	<b>0.9972</b>		<b>4,076.8106</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	0.2758	3.1134	3.5480	0.0128	0.3044	0.0674	0.3717	0.0834	0.0620	0.1453		1,201.1838	1,201.1838	9.5100e-003		1,201.3836
Vendor	0.0135	0.1016	0.1999	4.3000e-004	0.0125	1.8900e-003	0.0144	3.5600e-003	1.7400e-003	5.3000e-003		40.0988	40.0988	3.0000e-004		40.1051
Worker	0.3920	0.5208	5.4703	0.0186	1.5649	0.0120	1.5769	0.4150	0.0111	0.4261		1,313.6292	1,313.6292	0.0621		1,314.9326
<b>Total</b>	<b>0.6813</b>	<b>3.7358</b>	<b>9.2182</b>	<b>0.0318</b>	<b>1.8817</b>	<b>0.0812</b>	<b>1.9630</b>	<b>0.5019</b>	<b>0.0748</b>	<b>0.5768</b>		<b>2,554.9117</b>	<b>2,554.9117</b>	<b>0.0719</b>		<b>2,556.4213</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0767	0.0000	0.0767	0.0116	0.0000	0.0116			0.0000			0.0000
Off-Road	0.4880	2.1146	25.4982	0.0422		0.0651	0.0651		0.0651	0.0651	0.0000	4,055.8690	4,055.8690	0.9972		4,076.8106
<b>Total</b>	<b>0.4880</b>	<b>2.1146</b>	<b>25.4982</b>	<b>0.0422</b>	<b>0.0767</b>	<b>0.0651</b>	<b>0.1417</b>	<b>0.0116</b>	<b>0.0651</b>	<b>0.0767</b>	<b>0.0000</b>	<b>4,055.8690</b>	<b>4,055.8690</b>	<b>0.9972</b>		<b>4,076.8106</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	0.2758	3.1134	3.5480	0.0128	0.3044	0.0674	0.3717	0.0834	0.0620	0.1453		1,201.1838	1,201.1838	9.5100e-003		1,201.3836
Vendor	0.0135	0.1016	0.1999	4.3000e-004	0.0125	1.8900e-003	0.0144	3.5600e-003	1.7400e-003	5.3000e-003		40.0988	40.0988	3.0000e-004		40.1051
Worker	0.3920	0.5208	5.4703	0.0186	1.5649	0.0120	1.5769	0.4150	0.0111	0.4261		1,313.6292	1,313.6292	0.0621		1,314.9326
<b>Total</b>	<b>0.6813</b>	<b>3.7358</b>	<b>9.2182</b>	<b>0.0318</b>	<b>1.8817</b>	<b>0.0812</b>	<b>1.9630</b>	<b>0.5019</b>	<b>0.0748</b>	<b>0.5768</b>		<b>2,554.9117</b>	<b>2,554.9117</b>	<b>0.0719</b>		<b>2,556.4213</b>

### 3.3 Grading - 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					
Fugitive Dust					6.5974	0.0000	6.5974	3.3743	0.0000	3.3743			0.0000			0.0000
Off-Road	1.8959	19.0213	16.2682	0.0213		0.9807	0.9807		0.9023	0.9023		2,065.5797	2,065.5797	0.6681		2,079.6088
<b>Total</b>	<b>1.8959</b>	<b>19.0213</b>	<b>16.2682</b>	<b>0.0213</b>	<b>6.5974</b>	<b>0.9807</b>	<b>7.5781</b>	<b>3.3743</b>	<b>0.9023</b>	<b>4.2766</b>		<b>2,065.5797</b>	<b>2,065.5797</b>	<b>0.6681</b>		<b>2,079.6088</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	1.0481	11.8326	13.4842	0.0486	1.1568	0.2560	1.4128	0.3168	0.2356	0.5523		4,565.1718	4,565.1718	0.0362		4,565.9311
Vendor	0.0135	0.1016	0.1999	4.3000e-004	0.0125	1.8900e-003	0.0144	3.5600e-003	1.7400e-003	5.3000e-003		40.0988	40.0988	3.0000e-004		40.1051
Worker	0.7839	1.0417	10.9405	0.0371	3.1297	0.0240	3.1537	0.8300	0.0222	0.8522		2,627.2584	2,627.2584	0.1241		2,629.8653
<b>Total</b>	<b>1.8456</b>	<b>12.9758</b>	<b>24.6247</b>	<b>0.0861</b>	<b>4.2990</b>	<b>0.2819</b>	<b>4.5809</b>	<b>1.1504</b>	<b>0.2595</b>	<b>1.4099</b>		<b>7,232.5289</b>	<b>7,232.5289</b>	<b>0.1606</b>		<b>7,235.9014</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					2.5730	0.0000	2.5730	1.3160	0.0000	1.3160			0.0000			0.0000
Off-Road	0.2594	1.1240	13.2973	0.0213		0.0346	0.0346		0.0346	0.0346	0.0000	2,065.5797	2,065.5797	0.6681		2,079.6088
<b>Total</b>	<b>0.2594</b>	<b>1.1240</b>	<b>13.2973</b>	<b>0.0213</b>	<b>2.5730</b>	<b>0.0346</b>	<b>2.6076</b>	<b>1.3160</b>	<b>0.0346</b>	<b>1.3506</b>	<b>0.0000</b>	<b>2,065.5797</b>	<b>2,065.5797</b>	<b>0.6681</b>		<b>2,079.6088</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	1.0481	11.8326	13.4842	0.0486	1.1568	0.2560	1.4128	0.3168	0.2356	0.5523		4,565.1718	4,565.1718	0.0362		4,565.9311
Vendor	0.0135	0.1016	0.1999	4.3000e-004	0.0125	1.8900e-003	0.0144	3.5600e-003	1.7400e-003	5.3000e-003		40.0988	40.0988	3.0000e-004		40.1051
Worker	0.7839	1.0417	10.9405	0.0371	3.1297	0.0240	3.1537	0.8300	0.0222	0.8522		2,627.2584	2,627.2584	0.1241		2,629.8653
<b>Total</b>	<b>1.8456</b>	<b>12.9758</b>	<b>24.6247</b>	<b>0.0861</b>	<b>4.2990</b>	<b>0.2819</b>	<b>4.5809</b>	<b>1.1504</b>	<b>0.2595</b>	<b>1.4099</b>		<b>7,232.5289</b>	<b>7,232.5289</b>	<b>0.1606</b>		<b>7,235.9014</b>

## 3.4 Building Construction - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1719	10.5252	8.8479	0.0152		0.5363	0.5363		0.5004	0.5004		1,410.9143	1,410.9143	0.4051		1,419.4222
<b>Total</b>	<b>1.1719</b>	<b>10.5252</b>	<b>8.8479</b>	<b>0.0152</b>		<b>0.5363</b>	<b>0.5363</b>		<b>0.5004</b>	<b>0.5004</b>		<b>1,410.9143</b>	<b>1,410.9143</b>	<b>0.4051</b>		<b>1,419.4222</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	0.2908	2.1843	4.2988	9.2200e-003	0.2689	0.0407	0.3095	0.0766	0.0374	0.1140		862.1231	862.1231	6.4900e-003			862.2593
Worker	2.0018	2.6600	27.9374	0.0947	7.9920	0.0612	8.0532	2.1195	0.0567	2.1763		6,708.8920	6,708.8920	0.3170			6,715.5488
<b>Total</b>	<b>2.2926</b>	<b>4.8443</b>	<b>32.2362</b>	<b>0.1040</b>	<b>8.2609</b>	<b>0.1018</b>	<b>8.3627</b>	<b>2.1961</b>	<b>0.0941</b>	<b>2.2902</b>		<b>7,571.0151</b>	<b>7,571.0151</b>	<b>0.3235</b>			<b>7,577.8081</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	0.5074	2.5097	9.5125	0.0152		0.1079	0.1079		0.1079	0.1079	0.0000	1,410.9143	1,410.9143	0.4051			1,419.4222
<b>Total</b>	<b>0.5074</b>	<b>2.5097</b>	<b>9.5125</b>	<b>0.0152</b>		<b>0.1079</b>	<b>0.1079</b>		<b>0.1079</b>	<b>0.1079</b>	<b>0.0000</b>	<b>1,410.9143</b>	<b>1,410.9143</b>	<b>0.4051</b>			<b>1,419.4222</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	0.2908	2.1843	4.2988	9.2200e-003	0.2689	0.0407	0.3095	0.0766	0.0374	0.1140		862.1231	862.1231	6.4900e-003			862.2593
Worker	2.0018	2.6600	27.9374	0.0947	7.9920	0.0612	8.0532	2.1195	0.0567	2.1763		6,708.8920	6,708.8920	0.3170			6,715.5488
<b>Total</b>	<b>2.2926</b>	<b>4.8443</b>	<b>32.2362</b>	<b>0.1040</b>	<b>8.2609</b>	<b>0.1018</b>	<b>8.3627</b>	<b>2.1961</b>	<b>0.0941</b>	<b>2.2902</b>		<b>7,571.0151</b>	<b>7,571.0151</b>	<b>0.3235</b>			<b>7,577.8081</b>

### 3.4 Building Construction - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0566	9.4003	8.6944	0.0152		0.4545	0.4545		0.4244	0.4244		1,411.5857	1,411.5857	0.4032		1,420.0522
<b>Total</b>	<b>1.0566</b>	<b>9.4003</b>	<b>8.6944</b>	<b>0.0152</b>		<b>0.4545</b>	<b>0.4545</b>		<b>0.4244</b>	<b>0.4244</b>		<b>1,411.5857</b>	<b>1,411.5857</b>	<b>0.4032</b>		<b>1,420.0522</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	0.2843	1.9826	4.1982	9.2100e-003	0.2689	0.0402	0.3091	0.0766	0.0370	0.1136		861.3444	861.3444	6.6300e-003		861.4837
Worker	1.8959	2.4945	26.2620	0.0947	7.9920	0.0611	8.0531	2.1195	0.0567	2.1762		6,597.3648	6,597.3648	0.3035		6,603.7392
<b>Total</b>	<b>2.1802</b>	<b>4.4771</b>	<b>30.4602</b>	<b>0.1039</b>	<b>8.2609</b>	<b>0.1013</b>	<b>8.3622</b>	<b>2.1961</b>	<b>0.0937</b>	<b>2.2898</b>		<b>7,458.7093</b>	<b>7,458.7093</b>	<b>0.3102</b>		<b>7,465.2228</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	0.4815	2.4637	9.4896	0.0152		0.0977	0.0977		0.0977	0.0977	0.0000	1,411.5857	1,411.5857	0.4032		1,420.0522
<b>Total</b>	<b>0.4815</b>	<b>2.4637</b>	<b>9.4896</b>	<b>0.0152</b>		<b>0.0977</b>	<b>0.0977</b>		<b>0.0977</b>	<b>0.0977</b>	<b>0.0000</b>	<b>1,411.5857</b>	<b>1,411.5857</b>	<b>0.4032</b>		<b>1,420.0522</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	0.2843	1.9826	4.1982	9.2100e-003	0.2689	0.0402	0.3091	0.0766	0.0370	0.1136		861.3444	861.3444	6.6300e-003			861.4837
Worker	1.8959	2.4945	26.2620	0.0947	7.9920	0.0611	8.0531	2.1195	0.0567	2.1762		6,597.3648	6,597.3648	0.3035			6,603.7392
<b>Total</b>	<b>2.1802</b>	<b>4.4771</b>	<b>30.4602</b>	<b>0.1039</b>	<b>8.2609</b>	<b>0.1013</b>	<b>8.3622</b>	<b>2.1961</b>	<b>0.0937</b>	<b>2.2898</b>		<b>7,458.7093</b>	<b>7,458.7093</b>	<b>0.3102</b>			<b>7,465.2228</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.9815	8.7022	8.6063	0.0152		0.3978	0.3978		0.3716	0.3716		1,412.1669	1,412.1669	0.4012			1,420.5913
<b>Total</b>	<b>0.9815</b>	<b>8.7022</b>	<b>8.6063</b>	<b>0.0152</b>		<b>0.3978</b>	<b>0.3978</b>		<b>0.3716</b>	<b>0.3716</b>		<b>1,412.1669</b>	<b>1,412.1669</b>	<b>0.4012</b>			<b>1,420.5913</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	0.2640	1.5751	4.0422	9.1600e-003	0.2689	0.0397	0.3086	0.0766	0.0365	0.1131		857.1822	857.1822	5.9900e-003			857.3079
Worker	1.7963	2.3473	24.7317	0.0947	7.9920	0.0611	8.0531	2.1195	0.0567	2.1762		6,495.6047	6,495.6047	0.2916			6,501.7291
<b>Total</b>	<b>2.0604</b>	<b>3.9224</b>	<b>28.7740</b>	<b>0.1039</b>	<b>8.2609</b>	<b>0.1008</b>	<b>8.3617</b>	<b>2.1961</b>	<b>0.0932</b>	<b>2.2893</b>		<b>7,352.7869</b>	<b>7,352.7869</b>	<b>0.2976</b>			<b>7,359.0370</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	0.4592	2.4213	9.4716	0.0152		0.0889	0.0889		0.0889	0.0889	0.0000	1,412.1669	1,412.1669	0.4012		1,420.5913
<b>Total</b>	<b>0.4592</b>	<b>2.4213</b>	<b>9.4716</b>	<b>0.0152</b>		<b>0.0889</b>	<b>0.0889</b>		<b>0.0889</b>	<b>0.0889</b>	<b>0.0000</b>	<b>1,412.1669</b>	<b>1,412.1669</b>	<b>0.4012</b>		<b>1,420.5913</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	0.2640	1.5751	4.0422	9.1600e-003	0.2689	0.0397	0.3086	0.0766	0.0365	0.1131		857.1822	857.1822	5.9900e-003		857.3079
Worker	1.7963	2.3473	24.7317	0.0947	7.9920	0.0611	8.0531	2.1195	0.0567	2.1762		6,495.6047	6,495.6047	0.2916		6,501.7291
<b>Total</b>	<b>2.0604</b>	<b>3.9224</b>	<b>28.7740</b>	<b>0.1039</b>	<b>8.2609</b>	<b>0.1008</b>	<b>8.3617</b>	<b>2.1961</b>	<b>0.0932</b>	<b>2.2893</b>		<b>7,352.7869</b>	<b>7,352.7869</b>	<b>0.2976</b>		<b>7,359.0370</b>

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8875	8.4087	9.5685	0.0139		0.4855	0.4855		0.4478	0.4478		1,330.2804	1,330.2804	0.4192		1,339.0824
Paving	9.7200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8973</b>	<b>8.4087</b>	<b>9.5685</b>	<b>0.0139</b>		<b>0.4855</b>	<b>0.4855</b>		<b>0.4478</b>	<b>0.4478</b>		<b>1,330.2804</b>	<b>1,330.2804</b>	<b>0.4192</b>		<b>1,339.0824</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	0.1206	0.1576	1.6603	6.3600e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8000e-003	0.1461		436.0686	436.0686	0.0196		436.4797
<b>Total</b>	<b>0.1206</b>	<b>0.1576</b>	<b>1.6603</b>	<b>6.3600e-003</b>	<b>0.5365</b>	<b>4.1000e-003</b>	<b>0.5406</b>	<b>0.1423</b>	<b>3.8000e-003</b>	<b>0.1461</b>		<b>436.0686</b>	<b>436.0686</b>	<b>0.0196</b>		<b>436.4797</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	0.2208	1.0702	10.2985	0.0139		0.0359	0.0359		0.0359	0.0359	0.0000	1,330.2804	1,330.2804	0.4192		1,339.0824
Paving	9.7200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2305</b>	<b>1.0702</b>	<b>10.2985</b>	<b>0.0139</b>		<b>0.0359</b>	<b>0.0359</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>1,330.2804</b>	<b>1,330.2804</b>	<b>0.4192</b>		<b>1,339.0824</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	0.1206	0.1576	1.6603	6.3600e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8000e-003	0.1461		436.0686	436.0686	0.0196		436.4797
<b>Total</b>	<b>0.1206</b>	<b>0.1576</b>	<b>1.6603</b>	<b>6.3600e-003</b>	<b>0.5365</b>	<b>4.1000e-003</b>	<b>0.5406</b>	<b>0.1423</b>	<b>3.8000e-003</b>	<b>0.1461</b>		<b>436.0686</b>	<b>436.0686</b>	<b>0.0196</b>		<b>436.4797</b>

### 3.6 Architectural Coating - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	97.4023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>97.5939</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</b>

#### 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	0.2010	0.2626	2.7672	0.0106	0.8942	6.8300e-003	0.9011	0.2372	6.3400e-003	0.2435		726.7809	726.7809	0.0326		727.4662
<b>Total</b>	<b>0.2010</b>	<b>0.2626</b>	<b>2.7672</b>	<b>0.0106</b>	<b>0.8942</b>	<b>6.8300e-003</b>	<b>0.9011</b>	<b>0.2372</b>	<b>6.3400e-003</b>	<b>0.2435</b>		<b>726.7809</b>	<b>726.7809</b>	<b>0.0326</b>		<b>727.4662</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	97.4023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>97.4320</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</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	0.2010	0.2626	2.7672	0.0106	0.8942	6.8300e-003	0.9011	0.2372	6.3400e-003	0.2435		726.7809	726.7809	0.0326		727.4662
<b>Total</b>	<b>0.2010</b>	<b>0.2626</b>	<b>2.7672</b>	<b>0.0106</b>	<b>0.8942</b>	<b>6.8300e-003</b>	<b>0.9011</b>	<b>0.2372</b>	<b>6.3400e-003</b>	<b>0.2435</b>		<b>726.7809</b>	<b>726.7809</b>	<b>0.0326</b>		<b>727.4662</b>

## **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**

*Phase 4 Construction Emissions*

## Harbor UCLA Master Plan- Phase 4 South Coast Air Basin, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	450.00	1000sqft	10.33	450,000.00	0
Hospital	505.10	1000sqft	11.60	505,101.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11	<b>Operational Year</b>		2014	
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	154.00
tblConstructionPhase	NumDays	370.00	283.00
tblConstructionPhase	NumDays	370.00	305.00
tblConstructionPhase	NumDays	35.00	154.00
tblConstructionPhase	NumDays	20.00	162.00
tblConstructionPhase	PhaseEndDate	9/3/2026	1/30/2026

tblConstructionPhase	PhaseEndDate	11/28/2024	11/30/2024
tblConstructionPhase	PhaseEndDate	9/15/2026	8/16/2027
tblConstructionPhase	PhaseStartDate	1/31/2026	7/1/2025
tblConstructionPhase	PhaseStartDate	10/31/2023	11/1/2023
tblConstructionPhase	PhaseStartDate	1/31/2026	1/1/2027
tblGrading	MaterialExported	0.00	22,675.00
tblGrading	MaterialImported	0.00	38,726.00
tblLandUse	LandUseSquareFeet	505,100.00	505,101.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	HaulingTripNumber	7,675.00	12,067.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	536.00
tblTripsAndVMT	WorkerTripNumber	306.00	3,654.00
tblTripsAndVMT	WorkerTripNumber	306.00	3,654.00
tblTripsAndVMT	WorkerTripNumber	61.00	360.00
tblTripsAndVMT	WorkerTripNumber	20.00	118.00

## 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					
2023	13.3289	46.1400	183.8585	0.6070	41.8248	1.8195	43.6443	11.1114	1.7046	12.8160	0.0000	43,919.1539	43,919.1539	2.9042	0.0000	43,980.1411
2024	12.6767	43.5723	176.8442	0.6099	41.8248	1.6574	43.4823	11.1114	1.5517	12.6631	0.0000	43,626.4431	43,626.4431	2.8578	0.0000	43,686.4564
2025	154.9427	26.8273	163.8082	0.6269	45.8488	0.9041	46.7529	12.1786	0.8506	13.0292	0.0000	43,349.0579	43,349.0579	1.9654	0.0000	43,390.3314
2026	154.5239	26.1842	157.8783	0.6268	45.8489	0.9001	46.7490	12.1786	0.8470	13.0256	0.0000	42,925.8404	42,925.8404	1.9209	0.0000	42,966.1793
2027	1.4760	11.1984	18.3241	0.0379	1.3190	0.5528	1.8717	0.3498	0.5131	0.8628	0.0000	3,085.2188	3,085.2188	0.6275	0.0000	3,098.3961
<b>Total</b>	<b>336.9482</b>	<b>153.9223</b>	<b>700.7133</b>	<b>2.5086</b>	<b>176.6663</b>	<b>5.8339</b>	<b>182.5002</b>	<b>46.9298</b>	<b>5.4670</b>	<b>52.3968</b>	<b>0.0000</b>	<b>176,905.7140</b>	<b>176,905.7140</b>	<b>10.2757</b>	<b>0.0000</b>	<b>177,121.5042</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	11.2663	23.3744	187.3334	0.6070	41.8248	0.6987	42.5235	11.1114	0.6646	11.7760	0.0000	43,919.1539	43,919.1539	2.9042	0.0000	43,980.1411
2024	10.7618	22.6489	180.4184	0.6099	41.8248	0.6790	42.5039	11.1114	0.6447	11.7561	0.0000	43,626.4431	43,626.4431	2.8578	0.0000	43,686.4564
2025	154.2415	19.9576	164.7979	0.6269	45.8488	0.6002	46.4490	12.1786	0.5635	12.7421	0.0000	43,349.0579	43,349.0579	1.9654	0.0000	43,390.3314
2026	153.8227	19.3145	158.8679	0.6268	45.8489	0.5962	46.4451	12.1786	0.5599	12.7385	0.0000	42,925.8404	42,925.8404	1.9209	0.0000	42,966.1793
2027	0.7401	2.9505	19.2357	0.0379	1.3190	0.0947	1.4137	0.3498	0.0940	0.4438	0.0000	3,085.2188	3,085.2188	0.6275	0.0000	3,098.3961
<b>Total</b>	<b>330.8323</b>	<b>88.2458</b>	<b>710.6533</b>	<b>2.5086</b>	<b>176.6663</b>	<b>2.6688</b>	<b>179.3351</b>	<b>46.9298</b>	<b>2.5266</b>	<b>49.4565</b>	<b>0.0000</b>	<b>176,905.7140</b>	<b>176,905.7140</b>	<b>10.2757</b>	<b>0.0000</b>	<b>177,121.5042</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	N20	CO2e
Percent Reduction	1.82	42.67	-1.42	0.00	0.00	54.25	1.73	0.00	53.78	5.61	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	3/29/2023	10/30/2023	5	154	
2	Building Construction 2	Building Construction	11/1/2023	11/30/2024	5	283	
3	Building Construction 3	Building Construction	12/1/2024	1/30/2026	5	305	
4	Architectural Coating	Architectural Coating	7/1/2025	1/30/2026	5	154	
5	Paving	Paving	1/1/2027	8/16/2027	5	162	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 77

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,432,652; Non-Residential Outdoor: 477,551 (Architectural Coating)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction 2	Air Compressors	2	8.00	78	0.48
Building Construction 2	Cranes	2	7.00	226	0.29
Building Construction 2	Forklifts	2	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Rubber Tired Loaders	1	8.00	199	0.36

Building Construction 2	Tractors/Loaders/Backhoes	8	7.00	97	0.37
Building Construction 2	Welders	3	8.00	46	0.45
Building Construction 3	Air Compressors	1	8.00	78	0.48
Building Construction 3	Cranes	1	7.00	226	0.29
Building Construction 3	Forklifts	0	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 3	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Forklifts	1	8.00	89	0.20
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Paving	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
Grading	5	536.00	2.00	12,067.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	18	3,654.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	6	3,654.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	360.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	118.00	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

Clean Paved Roads

**3.2 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5974	0.0000	6.5974	3.3743	0.0000	3.3743			0.0000			0.0000
Off-Road	1.7480	17.0015	17.6662	0.0245		0.8357	0.8357		0.7688	0.7688		2,369.2913	2,369.2913	0.7663		2,385.3831
<b>Total</b>	<b>1.7480</b>	<b>17.0015</b>	<b>17.6662</b>	<b>0.0245</b>	<b>6.5974</b>	<b>0.8357</b>	<b>7.4331</b>	<b>3.3743</b>	<b>0.7688</b>	<b>4.1432</b>		<b>2,369.2913</b>	<b>2,369.2913</b>	<b>0.7663</b>		<b>2,385.3831</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	1.0534	8.8061	12.8028	0.0570	1.3660	0.2973	1.6633	0.3741	0.2735	0.6476		5,360.7156	5,360.7156	0.0370		5,361.4935
Vendor	0.0113	0.0719	0.1515	4.3000e-004	0.0125	1.8300e-003	0.0143	3.5600e-003	1.6900e-003	5.2500e-003		40.2119	40.2119	2.7000e-004		40.2176
Worker	1.3250	1.6067	20.4734	0.0758	5.9912	0.0458	6.0370	1.5889	0.0425	1.6314		5,197.4784	5,197.4784	0.2186		5,202.0696
<b>Total</b>	<b>2.3898</b>	<b>10.4848</b>	<b>33.4278</b>	<b>0.1332</b>	<b>7.3697</b>	<b>0.3449</b>	<b>7.7146</b>	<b>1.9666</b>	<b>0.3177</b>	<b>2.2842</b>		<b>10,598.4059</b>	<b>10,598.4059</b>	<b>0.2559</b>		<b>10,603.7806</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					2.5730	0.0000	2.5730	1.3160	0.0000	1.3160			0.0000			0.0000
Off-Road	0.2974	1.2886	15.6394	0.0245		0.0397	0.0397		0.0397	0.0397	0.0000	2,369.2913	2,369.2913	0.7663		2,385.3831
<b>Total</b>	<b>0.2974</b>	<b>1.2886</b>	<b>15.6394</b>	<b>0.0245</b>	<b>2.5730</b>	<b>0.0397</b>	<b>2.6127</b>	<b>1.3160</b>	<b>0.0397</b>	<b>1.3556</b>	<b>0.0000</b>	<b>2,369.2913</b>	<b>2,369.2913</b>	<b>0.7663</b>		<b>2,385.3831</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	1.0534	8.8061	12.8028	0.0570	1.3660	0.2973	1.6633	0.3741	0.2735	0.6476		5,360.7156	5,360.7156	0.0370		5,361.4935
Vendor	0.0113	0.0719	0.1515	4.3000e-004	0.0125	1.8300e-003	0.0143	3.5600e-003	1.6900e-003	5.2500e-003		40.2119	40.2119	2.7000e-004		40.2176
Worker	1.3250	1.6067	20.4734	0.0758	5.9912	0.0458	6.0370	1.5889	0.0425	1.6314		5,197.4784	5,197.4784	0.2186		5,202.0696
<b>Total</b>	<b>2.3898</b>	<b>10.4848</b>	<b>33.4278</b>	<b>0.1332</b>	<b>7.3697</b>	<b>0.3449</b>	<b>7.7146</b>	<b>1.9666</b>	<b>0.3177</b>	<b>2.2842</b>		<b>10,598.4059</b>	<b>10,598.4059</b>	<b>0.2559</b>		<b>10,603.7806</b>

### 3.3 Building Construction 2 - 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	3.4059	29.5404	32.3930	0.0565		1.3635	1.3635		1.2827	1.2827		5,330.4536	5,330.4536	1.3927		5,359.7012
<b>Total</b>	<b>3.4059</b>	<b>29.5404</b>	<b>32.3930</b>	<b>0.0565</b>		<b>1.3635</b>	<b>1.3635</b>		<b>1.2827</b>	<b>1.2827</b>		<b>5,330.4536</b>	<b>5,330.4536</b>	<b>1.3927</b>		<b>5,359.7012</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	0.8899	5.6464	11.8949	0.0337	0.9817	0.1438	1.1255	0.2796	0.1323	0.4119		3,156.6367	3,156.6367	0.0210		3,157.0775
Worker	9.0331	10.9533	139.5706	0.5169	40.8431	0.3122	41.1553	10.8318	0.2896	11.1213		35,432.0636	35,432.0636	1.4904		35,463.3624
<b>Total</b>	<b>9.9230</b>	<b>16.5996</b>	<b>151.4655</b>	<b>0.5506</b>	<b>41.8248</b>	<b>0.4560</b>	<b>42.2808</b>	<b>11.1114</b>	<b>0.4219</b>	<b>11.5333</b>		<b>38,588.7002</b>	<b>38,588.7002</b>	<b>1.5114</b>		<b>38,620.4399</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	1.3434	6.7748	35.8679	0.0565		0.2427	0.2427		0.2427	0.2427	0.0000	5,330.4536	5,330.4536	1.3927		5,359.7012
<b>Total</b>	<b>1.3434</b>	<b>6.7748</b>	<b>35.8679</b>	<b>0.0565</b>		<b>0.2427</b>	<b>0.2427</b>		<b>0.2427</b>	<b>0.2427</b>	<b>0.0000</b>	<b>5,330.4536</b>	<b>5,330.4536</b>	<b>1.3927</b>		<b>5,359.7012</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	0.8899	5.6464	11.8949	0.0337	0.9817	0.1438	1.1255	0.2796	0.1323	0.4119		3,156.6367	3,156.6367	0.0210		3,157.0775
Worker	9.0331	10.9533	139.5706	0.5169	40.8431	0.3122	41.1553	10.8318	0.2896	11.1213		35,432.0636	35,432.0636	1.4904		35,463.3624
<b>Total</b>	<b>9.9230</b>	<b>16.5996</b>	<b>151.4655</b>	<b>0.5506</b>	<b>41.8248</b>	<b>0.4560</b>	<b>42.2808</b>	<b>11.1114</b>	<b>0.4219</b>	<b>11.5333</b>		<b>38,588.7002</b>	<b>38,588.7002</b>	<b>1.5114</b>		<b>38,620.4399</b>

**3.3 Building Construction 2 - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2024	27.5788	32.2510	0.0565		1.1981	1.1981		1.1267	1.1267		5,331.7188	5,331.7188	1.3861		5,360.8275
<b>Total</b>	<b>3.2024</b>	<b>27.5788</b>	<b>32.2510</b>	<b>0.0565</b>		<b>1.1981</b>	<b>1.1981</b>		<b>1.1267</b>	<b>1.1267</b>		<b>5,331.7188</b>	<b>5,331.7188</b>	<b>1.3861</b>		<b>5,360.8275</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	0.8771	5.6174	11.6689	0.0338	0.9817	0.1439	1.1256	0.2796	0.1324	0.4120		3,165.1500	3,165.1500	0.0213			3,165.5972
Worker	8.5972	10.3762	132.9244	0.5196	40.8431	0.3154	41.1585	10.8318	0.2926	11.1244		35,129.5743	35,129.5743	1.4504			35,160.0317
<b>Total</b>	<b>9.4743</b>	<b>15.9935</b>	<b>144.5932</b>	<b>0.5534</b>	<b>41.8248</b>	<b>0.4593</b>	<b>42.2842</b>	<b>11.1114</b>	<b>0.4250</b>	<b>11.5364</b>		<b>38,294.7243</b>	<b>38,294.7243</b>	<b>1.4717</b>			<b>38,325.6289</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	1.2875	6.6554	35.8252	0.0565		0.2197	0.2197		0.2197	0.2197	0.0000	5,331.7188	5,331.7188	1.3861			5,360.8275
<b>Total</b>	<b>1.2875</b>	<b>6.6554</b>	<b>35.8252</b>	<b>0.0565</b>		<b>0.2197</b>	<b>0.2197</b>		<b>0.2197</b>	<b>0.2197</b>	<b>0.0000</b>	<b>5,331.7188</b>	<b>5,331.7188</b>	<b>1.3861</b>			<b>5,360.8275</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	0.8771	5.6174	11.6689	0.0338	0.9817	0.1439	1.1256	0.2796	0.1324	0.4120		3,165.1500	3,165.1500	0.0213			3,165.5972
Worker	8.5972	10.3762	132.9244	0.5196	40.8431	0.3154	41.1585	10.8318	0.2926	11.1244		35,129.5743	35,129.5743	1.4504			35,160.0317
<b>Total</b>	<b>9.4743</b>	<b>15.9935</b>	<b>144.5932</b>	<b>0.5534</b>	<b>41.8248</b>	<b>0.4593</b>	<b>42.2842</b>	<b>11.1114</b>	<b>0.4250</b>	<b>11.5364</b>		<b>38,294.7243</b>	<b>38,294.7243</b>	<b>1.4717</b>			<b>38,325.6289</b>

### 3.4 Building Construction 3 - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2486	9.9209	11.1725	0.0195		0.4173	0.4173		0.3980	0.3980		1,796.6843	1,796.6843	0.3890		1,804.8531
<b>Total</b>	<b>1.2486</b>	<b>9.9209</b>	<b>11.1725</b>	<b>0.0195</b>		<b>0.4173</b>	<b>0.4173</b>		<b>0.3980</b>	<b>0.3980</b>		<b>1,796.6843</b>	<b>1,796.6843</b>	<b>0.3890</b>		<b>1,804.8531</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	0.8771	5.6174	11.6689	0.0338	0.9817	0.1439	1.1256	0.2796	0.1324	0.4120		3,165.1500	3,165.1500	0.0213		3,165.5972
Worker	8.5972	10.3762	132.9244	0.5196	40.8431	0.3154	41.1585	10.8318	0.2926	11.1244		35,129.5743	35,129.5743	1.4504		35,160.0317
<b>Total</b>	<b>9.4743</b>	<b>15.9935</b>	<b>144.5932</b>	<b>0.5534</b>	<b>41.8248</b>	<b>0.4593</b>	<b>42.2842</b>	<b>11.1114</b>	<b>0.4250</b>	<b>11.5364</b>		<b>38,294.7243</b>	<b>38,294.7243</b>	<b>1.4717</b>		<b>38,325.6289</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	0.6385	3.4842	12.0944	0.0195		0.1172	0.1172		0.1172	0.1172	0.0000	1,796.6843	1,796.6843	0.3890		1,804.8531
<b>Total</b>	<b>0.6385</b>	<b>3.4842</b>	<b>12.0944</b>	<b>0.0195</b>		<b>0.1172</b>	<b>0.1172</b>		<b>0.1172</b>	<b>0.1172</b>	<b>0.0000</b>	<b>1,796.6843</b>	<b>1,796.6843</b>	<b>0.3890</b>		<b>1,804.8531</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	0.8771	5.6174	11.6689	0.0338	0.9817	0.1439	1.1256	0.2796	0.1324	0.4120		3,165.1500	3,165.1500	0.0213		3,165.5972
Worker	8.5972	10.3762	132.9244	0.5196	40.8431	0.3154	41.1585	10.8318	0.2926	11.1244		35,129.5743	35,129.5743	1.4504		35,160.0317
<b>Total</b>	<b>9.4743</b>	<b>15.9935</b>	<b>144.5932</b>	<b>0.5534</b>	<b>41.8248</b>	<b>0.4593</b>	<b>42.2842</b>	<b>11.1114</b>	<b>0.4250</b>	<b>11.5364</b>		<b>38,294.7243</b>	<b>38,294.7243</b>	<b>1.4717</b>		<b>38,325.6289</b>

**3.4 Building Construction 3 - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1664	9.2598	11.1039	0.0195		0.3604	0.3604		0.3436	0.3436		1,797.2064	1,797.2064	0.3856		1,805.3036
<b>Total</b>	<b>1.1664</b>	<b>9.2598</b>	<b>11.1039</b>	<b>0.0195</b>		<b>0.3604</b>	<b>0.3604</b>		<b>0.3436</b>	<b>0.3436</b>		<b>1,797.2064</b>	<b>1,797.2064</b>	<b>0.3856</b>		<b>1,805.3036</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	0.8619	5.5789	11.4714	0.0338	0.9818	0.1446	1.1264	0.2797	0.1330	0.4127		3,165.2319	3,165.2319	0.0214		3,165.6808
Worker	8.2049	9.8707	126.9195	0.5195	40.8431	0.3164	41.1595	10.8318	0.2936	11.1253		34,687.6674	34,687.6674	1.4047		34,717.1661
<b>Total</b>	<b>9.0668</b>	<b>15.4495</b>	<b>138.3908</b>	<b>0.5533</b>	<b>41.8249</b>	<b>0.4610</b>	<b>42.2859</b>	<b>11.1114</b>	<b>0.4266</b>	<b>11.5380</b>		<b>37,852.8993</b>	<b>37,852.8993</b>	<b>1.4261</b>		<b>37,882.8469</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	0.6063	3.4068	12.0703	0.0195		0.1040	0.1040		0.1040	0.1040	0.0000	1,797.2064	1,797.2064	0.3856		1,805.3036
<b>Total</b>	<b>0.6063</b>	<b>3.4068</b>	<b>12.0703</b>	<b>0.0195</b>		<b>0.1040</b>	<b>0.1040</b>		<b>0.1040</b>	<b>0.1040</b>	<b>0.0000</b>	<b>1,797.2064</b>	<b>1,797.2064</b>	<b>0.3856</b>		<b>1,805.3036</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	0.8619	5.5789	11.4714	0.0338	0.9818	0.1446	1.1264	0.2797	0.1330	0.4127		3,165.2319	3,165.2319	0.0214		3,165.6808
Worker	8.2049	9.8707	126.9195	0.5195	40.8431	0.3164	41.1595	10.8318	0.2936	11.1253		34,687.6674	34,687.6674	1.4047		34,717.1661
<b>Total</b>	<b>9.0668</b>	<b>15.4495</b>	<b>138.3908</b>	<b>0.5533</b>	<b>41.8249</b>	<b>0.4610</b>	<b>42.2859</b>	<b>11.1114</b>	<b>0.4266</b>	<b>11.5380</b>		<b>37,852.8993</b>	<b>37,852.8993</b>	<b>1.4261</b>		<b>37,882.8469</b>

**3.4 Building Construction 3 - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1664	9.2598	11.1039	0.0195		0.3604	0.3604		0.3436	0.3436		1,797.2064	1,797.2064	0.3856		1,805.3036
<b>Total</b>	<b>1.1664</b>	<b>9.2598</b>	<b>11.1039</b>	<b>0.0195</b>		<b>0.3604</b>	<b>0.3604</b>		<b>0.3436</b>	<b>0.3436</b>		<b>1,797.2064</b>	<b>1,797.2064</b>	<b>0.3856</b>		<b>1,805.3036</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	0.8350	5.4148	11.2530	0.0338	0.9818	0.1386	1.1204	0.2797	0.1275	0.4071		3,164.5194	3,164.5194	0.0207		3,164.9545
Worker	7.8480	9.4346	121.7201	0.5195	40.8431	0.3183	41.1614	10.8318	0.2953	11.1271		34,303.0552	34,303.0552	1.3648		34,331.7157
<b>Total</b>	<b>8.6830</b>	<b>14.8494</b>	<b>132.9731</b>	<b>0.5532</b>	<b>41.8249</b>	<b>0.4569</b>	<b>42.2818</b>	<b>11.1114</b>	<b>0.4228</b>	<b>11.5342</b>		<b>37,467.5746</b>	<b>37,467.5746</b>	<b>1.3855</b>		<b>37,496.6703</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	0.6063	3.4068	12.0703	0.0195		0.1040	0.1040		0.1040	0.1040	0.0000	1,797.2064	1,797.2064	0.3856		1,805.3036
<b>Total</b>	<b>0.6063</b>	<b>3.4068</b>	<b>12.0703</b>	<b>0.0195</b>		<b>0.1040</b>	<b>0.1040</b>		<b>0.1040</b>	<b>0.1040</b>	<b>0.0000</b>	<b>1,797.2064</b>	<b>1,797.2064</b>	<b>0.3856</b>		<b>1,805.3036</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	0.8350	5.4148	11.2530	0.0338	0.9818	0.1386	1.1204	0.2797	0.1275	0.4071		3,164.5194	3,164.5194	0.0207		3,164.9545
Worker	7.8480	9.4346	121.7201	0.5195	40.8431	0.3183	41.1614	10.8318	0.2953	11.1271		34,303.0552	34,303.0552	1.3648		34,331.7157
<b>Total</b>	<b>8.6830</b>	<b>14.8494</b>	<b>132.9731</b>	<b>0.5532</b>	<b>41.8249</b>	<b>0.4569</b>	<b>42.2818</b>	<b>11.1114</b>	<b>0.4228</b>	<b>11.5342</b>		<b>37,467.5746</b>	<b>37,467.5746</b>	<b>1.3855</b>		<b>37,496.6703</b>

### 3.5 Architectural Coating - 2025

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	143.7304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>143.9012</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.8084	0.9725	12.5044	0.0512	4.0240	0.0312	4.0551	1.0672	0.0289	1.0961		3,417.5042	3,417.5042	0.1384		3,420.4105
<b>Total</b>	<b>0.8084</b>	<b>0.9725</b>	<b>12.5044</b>	<b>0.0512</b>	<b>4.0240</b>	<b>0.0312</b>	<b>4.0551</b>	<b>1.0672</b>	<b>0.0289</b>	<b>1.0961</b>		<b>3,417.5042</b>	<b>3,417.5042</b>	<b>0.1384</b>		<b>3,420.4105</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	143.7304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>143.7601</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.8084	0.9725	12.5044	0.0512	4.0240	0.0312	4.0551	1.0672	0.0289	1.0961		3,417.5042	3,417.5042	0.1384		3,420.4105
<b>Total</b>	<b>0.8084</b>	<b>0.9725</b>	<b>12.5044</b>	<b>0.0512</b>	<b>4.0240</b>	<b>0.0312</b>	<b>4.0551</b>	<b>1.0672</b>	<b>0.0289</b>	<b>1.0961</b>		<b>3,417.5042</b>	<b>3,417.5042</b>	<b>0.1384</b>		<b>3,420.4105</b>

**3.5 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	143.7304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>143.9012</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.7732	0.9295	11.9921	0.0512	4.0240	0.0314	4.0553	1.0672	0.0291	1.0963		3,379.6114	3,379.6114	0.1345		3,382.4351
<b>Total</b>	<b>0.7732</b>	<b>0.9295</b>	<b>11.9921</b>	<b>0.0512</b>	<b>4.0240</b>	<b>0.0314</b>	<b>4.0553</b>	<b>1.0672</b>	<b>0.0291</b>	<b>1.0963</b>		<b>3,379.6114</b>	<b>3,379.6114</b>	<b>0.1345</b>		<b>3,382.4351</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	143.7304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>143.7601</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.7732	0.9295	11.9921	0.0512	4.0240	0.0314	4.0553	1.0672	0.0291	1.0963		3,379.6114	3,379.6114	0.1345		3,382.4351
<b>Total</b>	<b>0.7732</b>	<b>0.9295</b>	<b>11.9921</b>	<b>0.0512</b>	<b>4.0240</b>	<b>0.0314</b>	<b>4.0553</b>	<b>1.0672</b>	<b>0.0291</b>	<b>1.0963</b>		<b>3,379.6114</b>	<b>3,379.6114</b>	<b>0.1345</b>		<b>3,382.4351</b>

### **3.6 Paving - 2027**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2333	10.9063	14.5422	0.0211		0.5425	0.5425		0.5035	0.5035		1,988.2800	1,988.2800	0.5846		2,000.5559
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2333</b>	<b>10.9063</b>	<b>14.5422</b>	<b>0.0211</b>		<b>0.5425</b>	<b>0.5425</b>		<b>0.5035</b>	<b>0.5035</b>		<b>1,988.2800</b>	<b>1,988.2800</b>	<b>0.5846</b>		<b>2,000.5559</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	0.2427	0.2921	3.7819	0.0168	1.3190	0.0103	1.3293	0.3498	9.5800e-003	0.3594		1,096.9388	1,096.9388	0.0429		1,097.8402
<b>Total</b>	<b>0.2427</b>	<b>0.2921</b>	<b>3.7819</b>	<b>0.0168</b>	<b>1.3190</b>	<b>0.0103</b>	<b>1.3293</b>	<b>0.3498</b>	<b>9.5800e-003</b>	<b>0.3594</b>		<b>1,096.9388</b>	<b>1,096.9388</b>	<b>0.0429</b>		<b>1,097.8402</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	0.4974	2.6585	15.4538	0.0211		0.0844	0.0844		0.0844	0.0844	0.0000	1,988.2800	1,988.2800	0.5846		2,000.5559
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4974</b>	<b>2.6585</b>	<b>15.4538</b>	<b>0.0211</b>		<b>0.0844</b>	<b>0.0844</b>		<b>0.0844</b>	<b>0.0844</b>	<b>0.0000</b>	<b>1,988.2800</b>	<b>1,988.2800</b>	<b>0.5846</b>		<b>2,000.5559</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	0.2427	0.2921	3.7819	0.0168	1.3190	0.0103	1.3293	0.3498	9.5800e-003	0.3594		1,096.9388	1,096.9388	0.0429		1,097.8402
<b>Total</b>	<b>0.2427</b>	<b>0.2921</b>	<b>3.7819</b>	<b>0.0168</b>	<b>1.3190</b>	<b>0.0103</b>	<b>1.3293</b>	<b>0.3498</b>	<b>9.5800e-003</b>	<b>0.3594</b>		<b>1,096.9388</b>	<b>1,096.9388</b>	<b>0.0429</b>		<b>1,097.8402</b>

## Harbor UCLA Master Plan- Phase 4 South Coast Air Basin, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	450.00	1000sqft	10.33	450,000.00	0
Hospital	505.10	1000sqft	11.60	505,101.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11	<b>Operational Year</b>		2014	
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	154.00
tblConstructionPhase	NumDays	370.00	283.00
tblConstructionPhase	NumDays	370.00	305.00
tblConstructionPhase	NumDays	35.00	154.00
tblConstructionPhase	NumDays	20.00	162.00
tblConstructionPhase	PhaseEndDate	9/3/2026	1/30/2026

tblConstructionPhase	PhaseEndDate	11/28/2024	11/30/2024
tblConstructionPhase	PhaseEndDate	9/15/2026	8/16/2027
tblConstructionPhase	PhaseStartDate	1/31/2026	7/1/2025
tblConstructionPhase	PhaseStartDate	10/31/2023	11/1/2023
tblConstructionPhase	PhaseStartDate	1/31/2026	1/1/2027
tblGrading	MaterialExported	0.00	22,675.00
tblGrading	MaterialImported	0.00	38,726.00
tblLandUse	LandUseSquareFeet	505,100.00	505,101.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblTripsAndVMT	HaulingTripNumber	7,675.00	12,067.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	536.00
tblTripsAndVMT	WorkerTripNumber	306.00	3,654.00
tblTripsAndVMT	WorkerTripNumber	306.00	3,654.00
tblTripsAndVMT	WorkerTripNumber	61.00	360.00
tblTripsAndVMT	WorkerTripNumber	20.00	118.00

## 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					
2023	13.5501	47.2874	173.5431	0.5738	41.8248	1.8206	43.6454	11.1114	1.7056	12.8170	0.0000	41,655.8851	41,655.8851	2.9050	0.0000	41,716.8905
2024	12.8862	44.6555	166.8317	0.5764	41.8248	1.6585	43.4834	11.1114	1.5527	12.6641	0.0000	41,373.4860	41,373.4860	2.8586	0.0000	41,433.5174
2025	155.1561	27.9464	152.9133	0.5901	45.8488	0.9052	46.7540	12.1786	0.8516	13.0302	0.0000	40,902.2845	40,902.2845	1.9663	0.0000	40,943.5762
2026	154.7290	27.2461	147.3240	0.5900	45.8489	0.9012	46.7501	12.1786	0.8480	13.0266	0.0000	40,501.0812	40,501.0812	1.9218	0.0000	40,541.4384
2027	1.4799	11.2255	17.9444	0.0368	1.3190	0.5528	1.8717	0.3498	0.5131	0.8628	0.0000	3,015.2778	3,015.2778	0.6275	0.0000	3,028.4550
<b>Total</b>	<b>337.8014</b>	<b>158.3609</b>	<b>658.5564</b>	<b>2.3671</b>	<b>176.6663</b>	<b>5.8382</b>	<b>182.5045</b>	<b>46.9298</b>	<b>5.4710</b>	<b>52.4008</b>	<b>0.0000</b>	<b>167,448.0146</b>	<b>167,448.0146</b>	<b>10.2792</b>	<b>0.0000</b>	<b>167,663.8775</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	11.4875	24.5217	177.0179	0.5738	41.8248	0.6998	42.5246	11.1114	0.6656	11.7770	0.0000	41,655.8851	41,655.8851	2.9050	0.0000	41,716.8905
2024	10.9713	23.7321	170.4059	0.5764	41.8248	0.6801	42.5050	11.1114	0.6457	11.7571	0.0000	41,373.4860	41,373.4860	2.8586	0.0000	41,433.5174
2025	154.4549	21.0767	153.9029	0.5901	45.8488	0.6013	46.4501	12.1786	0.5645	12.7431	0.0000	40,902.2845	40,902.2845	1.9663	0.0000	40,943.5762
2026	154.0278	20.3764	148.3137	0.5900	45.8489	0.5973	46.4462	12.1786	0.5609	12.7395	0.0000	40,501.0812	40,501.0812	1.9218	0.0000	40,541.4384
2027	0.7440	2.9777	18.8560	0.0368	1.3190	0.0947	1.4137	0.3498	0.0940	0.4438	0.0000	3,015.2778	3,015.2778	0.6275	0.0000	3,028.4550
<b>Total</b>	<b>331.6855</b>	<b>92.6845</b>	<b>668.4964</b>	<b>2.3671</b>	<b>176.6663</b>	<b>2.6731</b>	<b>179.3394</b>	<b>46.9298</b>	<b>2.5306</b>	<b>49.4605</b>	<b>0.0000</b>	<b>167,448.0146</b>	<b>167,448.0146</b>	<b>10.2792</b>	<b>0.0000</b>	<b>167,663.8775</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	N20	CO2e
Percent Reduction	1.81	41.47	-1.51	0.00	0.00	54.21	1.73	0.00	53.74	5.61	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	3/29/2023	10/30/2023	5	154	
2	Building Construction 2	Building Construction	11/1/2023	11/30/2024	5	283	
3	Building Construction 3	Building Construction	12/1/2024	1/30/2026	5	305	
4	Architectural Coating	Architectural Coating	7/1/2025	1/30/2026	5	154	
5	Paving	Paving	1/1/2027	8/16/2027	5	162	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 77

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,432,652; Non-Residential Outdoor: 477,551 (Architectural Coating)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction 2	Air Compressors	2	8.00	78	0.48
Building Construction 2	Cranes	2	7.00	226	0.29
Building Construction 2	Forklifts	2	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Rubber Tired Loaders	1	8.00	199	0.36

Building Construction 2	Tractors/Loaders/Backhoes	8	7.00	97	0.37
Building Construction 2	Welders	3	8.00	46	0.45
Building Construction 3	Air Compressors	1	8.00	78	0.48
Building Construction 3	Cranes	1	7.00	226	0.29
Building Construction 3	Forklifts	0	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 3	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Forklifts	1	8.00	89	0.20
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Paving	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
Grading	5	536.00	2.00	12,067.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	18	3,654.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	6	3,654.00	157.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	360.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	118.00	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

Clean Paved Roads

**3.2 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5974	0.0000	6.5974	3.3743	0.0000	3.3743			0.0000			0.0000
Off-Road	1.7480	17.0015	17.6662	0.0245		0.8357	0.8357		0.7688	0.7688		2,369.2913	2,369.2913	0.7663		2,385.3831
<b>Total</b>	<b>1.7480</b>	<b>17.0015</b>	<b>17.6662</b>	<b>0.0245</b>	<b>6.5974</b>	<b>0.8357</b>	<b>7.4331</b>	<b>3.3743</b>	<b>0.7688</b>	<b>4.1432</b>		<b>2,369.2913</b>	<b>2,369.2913</b>	<b>0.7663</b>		<b>2,385.3831</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	1.0990	9.1069	14.9738	0.0569	1.3660	0.2979	1.6639	0.3741	0.2741	0.6482		5,347.8238	5,347.8238	0.0377		5,348.6157
Vendor	0.0123	0.0733	0.1880	4.3000e-004	0.0125	1.8500e-003	0.0144	3.5600e-003	1.7000e-003	5.2600e-003		39.8689	39.8689	2.8000e-004		39.8748
Worker	1.3466	1.7597	18.5401	0.0710	5.9912	0.0458	6.0370	1.5889	0.0425	1.6314		4,869.4323	4,869.4323	0.2186		4,874.0235
<b>Total</b>	<b>2.4579</b>	<b>10.9399</b>	<b>33.7019</b>	<b>0.1283</b>	<b>7.3697</b>	<b>0.3455</b>	<b>7.7152</b>	<b>1.9666</b>	<b>0.3182</b>	<b>2.2848</b>		<b>10,257.1251</b>	<b>10,257.1251</b>	<b>0.2566</b>		<b>10,262.5140</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					2.5730	0.0000	2.5730	1.3160	0.0000	1.3160			0.0000			0.0000
Off-Road	0.2974	1.2886	15.6394	0.0245		0.0397	0.0397		0.0397	0.0397	0.0000	2,369.2913	2,369.2913	0.7663		2,385.3831
<b>Total</b>	<b>0.2974</b>	<b>1.2886</b>	<b>15.6394</b>	<b>0.0245</b>	<b>2.5730</b>	<b>0.0397</b>	<b>2.6127</b>	<b>1.3160</b>	<b>0.0397</b>	<b>1.3556</b>	<b>0.0000</b>	<b>2,369.2913</b>	<b>2,369.2913</b>	<b>0.7663</b>		<b>2,385.3831</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	1.0990	9.1069	14.9738	0.0569	1.3660	0.2979	1.6639	0.3741	0.2741	0.6482		5,347.8238	5,347.8238	0.0377		5,348.6157
Vendor	0.0123	0.0733	0.1880	4.3000e-004	0.0125	1.8500e-003	0.0144	3.5600e-003	1.7000e-003	5.2600e-003		39.8689	39.8689	2.8000e-004		39.8748
Worker	1.3466	1.7597	18.5401	0.0710	5.9912	0.0458	6.0370	1.5889	0.0425	1.6314		4,869.4323	4,869.4323	0.2186		4,874.0235
<b>Total</b>	<b>2.4579</b>	<b>10.9399</b>	<b>33.7019</b>	<b>0.1283</b>	<b>7.3697</b>	<b>0.3455</b>	<b>7.7152</b>	<b>1.9666</b>	<b>0.3182</b>	<b>2.2848</b>		<b>10,257.1251</b>	<b>10,257.1251</b>	<b>0.2566</b>		<b>10,262.5140</b>

**3.3 Building Construction 2 - 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	3.4059	29.5404	32.3930	0.0565		1.3635	1.3635		1.2827	1.2827		5,330.4536	5,330.4536	1.3927		5,359.7012
<b>Total</b>	<b>3.4059</b>	<b>29.5404</b>	<b>32.3930</b>	<b>0.0565</b>		<b>1.3635</b>	<b>1.3635</b>		<b>1.2827</b>	<b>1.2827</b>		<b>5,330.4536</b>	<b>5,330.4536</b>	<b>1.3927</b>		<b>5,359.7012</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	0.9641	5.7510	14.7589	0.0335	0.9817	0.1449	1.1266	0.2796	0.1333	0.4129		3,129.7118	3,129.7118	0.0219		3,130.7088
Worker	9.1801	11.9959	126.3912	0.4839	40.8431	0.3122	41.1553	10.8318	0.2896	11.1213		33,195.7196	33,195.7196	1.4904		33,227.0185
<b>Total</b>	<b>10.1442</b>	<b>17.7470</b>	<b>141.1500</b>	<b>0.5173</b>	<b>41.8248</b>	<b>0.4571</b>	<b>42.2819</b>	<b>11.1114</b>	<b>0.4229</b>	<b>11.5343</b>		<b>36,325.4315</b>	<b>36,325.4315</b>	<b>1.5123</b>		<b>36,357.1893</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	1.3434	6.7748	35.8679	0.0565		0.2427	0.2427		0.2427	0.2427	0.0000	5,330.4536	5,330.4536	1.3927		5,359.7012
<b>Total</b>	<b>1.3434</b>	<b>6.7748</b>	<b>35.8679</b>	<b>0.0565</b>		<b>0.2427</b>	<b>0.2427</b>		<b>0.2427</b>	<b>0.2427</b>	<b>0.0000</b>	<b>5,330.4536</b>	<b>5,330.4536</b>	<b>1.3927</b>		<b>5,359.7012</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	0.9641	5.7510	14.7589	0.0335	0.9817	0.1449	1.1266	0.2796	0.1333	0.4129		3,129.7118	3,129.7118	0.0219		3,130.1708
Worker	9.1801	11.9959	126.3912	0.4839	40.8431	0.3122	41.1553	10.8318	0.2896	11.1213		33,195.7196	33,195.7196	1.4904		33,227.0185
<b>Total</b>	<b>10.1442</b>	<b>17.7470</b>	<b>141.1500</b>	<b>0.5173</b>	<b>41.8248</b>	<b>0.4571</b>	<b>42.2819</b>	<b>11.1114</b>	<b>0.4229</b>	<b>11.5343</b>		<b>36,325.4315</b>	<b>36,325.4315</b>	<b>1.5123</b>		<b>36,357.1893</b>

### 3.3 Building Construction 2 - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2024	27.5788	32.2510	0.0565		1.1981	1.1981		1.1267	1.1267		5,331.7188	5,331.7188	1.3861		5,360.8275
<b>Total</b>	<b>3.2024</b>	<b>27.5788</b>	<b>32.2510</b>	<b>0.0565</b>		<b>1.1981</b>	<b>1.1981</b>		<b>1.1267</b>	<b>1.1267</b>		<b>5,331.7188</b>	<b>5,331.7188</b>	<b>1.3861</b>		<b>5,360.8275</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	0.9481	5.7203	14.4657	0.0335	0.9817	0.1450	1.1267	0.2796	0.1334	0.4130		3,138.2223	3,138.2223	0.0222		3,138.6877
Worker	8.7356	11.3564	120.1150	0.4864	40.8431	0.3154	41.1585	10.8318	0.2926	11.1244		32,903.5448	32,903.5448	1.4504		32,934.0021
<b>Total</b>	<b>9.6838</b>	<b>17.0767</b>	<b>134.5807</b>	<b>0.5199</b>	<b>41.8248</b>	<b>0.4604</b>	<b>42.2853</b>	<b>11.1114</b>	<b>0.4260</b>	<b>11.5374</b>		<b>36,041.7672</b>	<b>36,041.7672</b>	<b>1.4725</b>		<b>36,072.6899</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	1.2875	6.6554	35.8252	0.0565		0.2197	0.2197		0.2197	0.2197	0.0000	5,331.7188	5,331.7188	1.3861		5,360.8275
<b>Total</b>	<b>1.2875</b>	<b>6.6554</b>	<b>35.8252</b>	<b>0.0565</b>		<b>0.2197</b>	<b>0.2197</b>		<b>0.2197</b>	<b>0.2197</b>	<b>0.0000</b>	<b>5,331.7188</b>	<b>5,331.7188</b>	<b>1.3861</b>		<b>5,360.8275</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	0.9481	5.7203	14.4657	0.0335	0.9817	0.1450	1.1267	0.2796	0.1334	0.4130		3,138.2223	3,138.2223	0.0222		3,138.6877
Worker	8.7356	11.3564	120.1150	0.4864	40.8431	0.3154	41.1585	10.8318	0.2926	11.1244		32,903.5448	32,903.5448	1.4504		32,934.0021
<b>Total</b>	<b>9.6838</b>	<b>17.0767</b>	<b>134.5807</b>	<b>0.5199</b>	<b>41.8248</b>	<b>0.4604</b>	<b>42.2853</b>	<b>11.1114</b>	<b>0.4260</b>	<b>11.5374</b>		<b>36,041.7672</b>	<b>36,041.7672</b>	<b>1.4725</b>		<b>36,072.6899</b>

### 3.4 Building Construction 3 - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2486	9.9209	11.1725	0.0195		0.4173	0.4173		0.3980	0.3980		1,796.6843	1,796.6843	0.3890		1,804.8531
<b>Total</b>	<b>1.2486</b>	<b>9.9209</b>	<b>11.1725</b>	<b>0.0195</b>		<b>0.4173</b>	<b>0.4173</b>		<b>0.3980</b>	<b>0.3980</b>		<b>1,796.6843</b>	<b>1,796.6843</b>	<b>0.3890</b>		<b>1,804.8531</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	0.9481	5.7203	14.4657	0.0335	0.9817	0.1450	1.1267	0.2796	0.1334	0.4130		3,138.2223	3,138.2223	0.0222		3,138.6877
Worker	8.7356	11.3564	120.1150	0.4864	40.8431	0.3154	41.1585	10.8318	0.2926	11.1244		32,903.5448	32,903.5448	1.4504		32,934.0021
<b>Total</b>	<b>9.6838</b>	<b>17.0767</b>	<b>134.5807</b>	<b>0.5199</b>	<b>41.8248</b>	<b>0.4604</b>	<b>42.2853</b>	<b>11.1114</b>	<b>0.4260</b>	<b>11.5374</b>		<b>36,041.7672</b>	<b>36,041.7672</b>	<b>1.4725</b>		<b>36,072.6899</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	0.6385	3.4842	12.0944	0.0195		0.1172	0.1172		0.1172	0.1172	0.0000	1,796.6843	1,796.6843	0.3890		1,804.8531
<b>Total</b>	<b>0.6385</b>	<b>3.4842</b>	<b>12.0944</b>	<b>0.0195</b>		<b>0.1172</b>	<b>0.1172</b>		<b>0.1172</b>	<b>0.1172</b>	<b>0.0000</b>	<b>1,796.6843</b>	<b>1,796.6843</b>	<b>0.3890</b>		<b>1,804.8531</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	0.9481	5.7203	14.4657	0.0335	0.9817	0.1450	1.1267	0.2796	0.1334	0.4130		3,138.2223	3,138.2223	0.0222		3,138.6877
Worker	8.7356	11.3564	120.1150	0.4864	40.8431	0.3154	41.1585	10.8318	0.2926	11.1244		32,903.5448	32,903.5448	1.4504		32,934.0021
<b>Total</b>	<b>9.6838</b>	<b>17.0767</b>	<b>134.5807</b>	<b>0.5199</b>	<b>41.8248</b>	<b>0.4604</b>	<b>42.2853</b>	<b>11.1114</b>	<b>0.4260</b>	<b>11.5374</b>		<b>36,041.7672</b>	<b>36,041.7672</b>	<b>1.4725</b>		<b>36,072.6899</b>

**3.4 Building Construction 3 - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1664	9.2598	11.1039	0.0195		0.3604	0.3604		0.3436	0.3436		1,797.2064	1,797.2064	0.3856		1,805.3036
<b>Total</b>	<b>1.1664</b>	<b>9.2598</b>	<b>11.1039</b>	<b>0.0195</b>		<b>0.3604</b>	<b>0.3604</b>		<b>0.3436</b>	<b>0.3436</b>		<b>1,797.2064</b>	<b>1,797.2064</b>	<b>0.3856</b>		<b>1,805.3036</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	0.9302	5.6800	14.2097	0.0335	0.9818	0.1457	1.1275	0.2797	0.1340	0.4137		3,138.3019	3,138.3019	0.0223		3,138.7690
Worker	8.3369	10.7973	114.5089	0.4862	40.8431	0.3164	41.1595	10.8318	0.2936	11.1253		32,484.8503	32,484.8503	1.4047		32,514.3490
<b>Total</b>	<b>9.2671</b>	<b>16.4774</b>	<b>128.7186</b>	<b>0.5198</b>	<b>41.8249</b>	<b>0.4621</b>	<b>42.2870</b>	<b>11.1114</b>	<b>0.4276</b>	<b>11.5390</b>		<b>35,623.1522</b>	<b>35,623.1522</b>	<b>1.4270</b>		<b>35,653.1180</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	0.6063	3.4068	12.0703	0.0195		0.1040	0.1040		0.1040	0.1040	0.0000	1,797.2064	1,797.2064	0.3856		1,805.3036
<b>Total</b>	<b>0.6063</b>	<b>3.4068</b>	<b>12.0703</b>	<b>0.0195</b>		<b>0.1040</b>	<b>0.1040</b>		<b>0.1040</b>	<b>0.1040</b>	<b>0.0000</b>	<b>1,797.2064</b>	<b>1,797.2064</b>	<b>0.3856</b>		<b>1,805.3036</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	0.9302	5.6800	14.2097	0.0335	0.9818	0.1457	1.1275	0.2797	0.1340	0.4137		3,138.3019	3,138.3019	0.0223		3,138.7690
Worker	8.3369	10.7973	114.5089	0.4862	40.8431	0.3164	41.1595	10.8318	0.2936	11.1253		32,484.8503	32,484.8503	1.4047		32,514.3490
<b>Total</b>	<b>9.2671</b>	<b>16.4774</b>	<b>128.7186</b>	<b>0.5198</b>	<b>41.8249</b>	<b>0.4621</b>	<b>42.2870</b>	<b>11.1114</b>	<b>0.4276</b>	<b>11.5390</b>		<b>35,623.1522</b>	<b>35,623.1522</b>	<b>1.4270</b>		<b>35,653.1180</b>

**3.4 Building Construction 3 - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1664	9.2598	11.1039	0.0195		0.3604	0.3604		0.3436	0.3436		1,797.2064	1,797.2064	0.3856		1,805.3036
<b>Total</b>	<b>1.1664</b>	<b>9.2598</b>	<b>11.1039</b>	<b>0.0195</b>		<b>0.3604</b>	<b>0.3604</b>		<b>0.3436</b>	<b>0.3436</b>		<b>1,797.2064</b>	<b>1,797.2064</b>	<b>0.3856</b>		<b>1,805.3036</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	0.9014	5.5092	13.9515	0.0335	0.9818	0.1396	1.1214	0.2797	0.1285	0.4081		3,137.5873	3,137.5873	0.0216			3,138.046
Worker	7.9744	10.3153	109.6560	0.4861	40.8431	0.3183	41.1614	10.8318	0.2953	11.1271		32,120.2799	32,120.2799	1.3648			32,148.9405
<b>Total</b>	<b>8.8757</b>	<b>15.8245</b>	<b>123.6075</b>	<b>0.5196</b>	<b>41.8249</b>	<b>0.4579</b>	<b>42.2829</b>	<b>11.1114</b>	<b>0.4238</b>	<b>11.5352</b>		<b>35,257.8672</b>	<b>35,257.8672</b>	<b>1.3864</b>			<b>35,286.9811</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	0.6063	3.4068	12.0703	0.0195		0.1040	0.1040		0.1040	0.1040	0.0000	1,797.2064	1,797.2064	0.3856			1,805.3036
<b>Total</b>	<b>0.6063</b>	<b>3.4068</b>	<b>12.0703</b>	<b>0.0195</b>		<b>0.1040</b>	<b>0.1040</b>		<b>0.1040</b>	<b>0.1040</b>	<b>0.0000</b>	<b>1,797.2064</b>	<b>1,797.2064</b>	<b>0.3856</b>			<b>1,805.3036</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	0.9014	5.5092	13.9515	0.0335	0.9818	0.1396	1.1214	0.2797	0.1285	0.4081		3,137.5873	3,137.5873	0.0216			3,138.046
Worker	7.9744	10.3153	109.6560	0.4861	40.8431	0.3183	41.1614	10.8318	0.2953	11.1271		32,120.2799	32,120.2799	1.3648			32,148.9405
<b>Total</b>	<b>8.8757</b>	<b>15.8245</b>	<b>123.6075</b>	<b>0.5196</b>	<b>41.8249</b>	<b>0.4579</b>	<b>42.2829</b>	<b>11.1114</b>	<b>0.4238</b>	<b>11.5352</b>		<b>35,257.8672</b>	<b>35,257.8672</b>	<b>1.3864</b>			<b>35,286.9811</b>

### 3.5 Architectural Coating - 2025

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	143.7304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>143.9012</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.8214	1.0638	11.2817	0.0479	4.0240	0.0312	4.0551	1.0672	0.0289	1.0961		3,200.4779	3,200.4779	0.1384		3,203.3841
<b>Total</b>	<b>0.8214</b>	<b>1.0638</b>	<b>11.2817</b>	<b>0.0479</b>	<b>4.0240</b>	<b>0.0312</b>	<b>4.0551</b>	<b>1.0672</b>	<b>0.0289</b>	<b>1.0961</b>		<b>3,200.4779</b>	<b>3,200.4779</b>	<b>0.1384</b>		<b>3,203.3841</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	143.7304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003	3.9600e-003	3.9600e-003	3.9600e-003	3.9600e-003	3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>143.7601</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.8214	1.0638	11.2817	0.0479	4.0240	0.0312	4.0551	1.0672	0.0289	1.0961		3,200.4779	3,200.4779	0.1384			3,203.3841
<b>Total</b>	<b>0.8214</b>	<b>1.0638</b>	<b>11.2817</b>	<b>0.0479</b>	<b>4.0240</b>	<b>0.0312</b>	<b>4.0551</b>	<b>1.0672</b>	<b>0.0289</b>	<b>1.0961</b>		<b>3,200.4779</b>	<b>3,200.4779</b>	<b>0.1384</b>			<b>3,203.3841</b>

**3.5 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	143.7304					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154			281.7705
<b>Total</b>	<b>143.9012</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>			<b>281.7705</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	0.7857	1.0163	10.8035	0.0479	4.0240	0.0314	4.0553	1.0672	0.0291	1.0963		3,164.5596	3,164.5596	0.1345			3,167.3833
<b>Total</b>	<b>0.7857</b>	<b>1.0163</b>	<b>10.8035</b>	<b>0.0479</b>	<b>4.0240</b>	<b>0.0314</b>	<b>4.0553</b>	<b>1.0672</b>	<b>0.0291</b>	<b>1.0963</b>		<b>3,164.5596</b>	<b>3,164.5596</b>	<b>0.1345</b>			<b>3,167.3833</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	143.7304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>143.7601</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.7857	1.0163	10.8035	0.0479	4.0240	0.0314	4.0553	1.0672	0.0291	1.0963		3,164.5596	3,164.5596	0.1345		3,167.3833
<b>Total</b>	<b>0.7857</b>	<b>1.0163</b>	<b>10.8035</b>	<b>0.0479</b>	<b>4.0240</b>	<b>0.0314</b>	<b>4.0553</b>	<b>1.0672</b>	<b>0.0291</b>	<b>1.0963</b>		<b>3,164.5596</b>	<b>3,164.5596</b>	<b>0.1345</b>		<b>3,167.3833</b>

### 3.6 Paving - 2027

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2333	10.9063	14.5422	0.0211		0.5425	0.5425		0.5035	0.5035		1,988.2800	1,988.2800	0.5846		2,000.5559
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2333</b>	<b>10.9063</b>	<b>14.5422</b>	<b>0.0211</b>		<b>0.5425</b>	<b>0.5425</b>		<b>0.5035</b>	<b>0.5035</b>		<b>1,988.2800</b>	<b>1,988.2800</b>	<b>0.5846</b>		<b>2,000.5559</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	0.2466	0.3192	3.4021	0.0157	1.3190	0.0103	1.3293	0.3498	9.5800e-003	0.3594		1,026.9978	1,026.9978	0.0429		1,027.8991
<b>Total</b>	<b>0.2466</b>	<b>0.3192</b>	<b>3.4021</b>	<b>0.0157</b>	<b>1.3190</b>	<b>0.0103</b>	<b>1.3293</b>	<b>0.3498</b>	<b>9.5800e-003</b>	<b>0.3594</b>		<b>1,026.9978</b>	<b>1,026.9978</b>	<b>0.0429</b>		<b>1,027.8991</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	0.4974	2.6585	15.4538	0.0211		0.0844	0.0844		0.0844	0.0844	0.0000	1,988.2800	1,988.2800	0.5846		2,000.5559
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4974</b>	<b>2.6585</b>	<b>15.4538</b>	<b>0.0211</b>		<b>0.0844</b>	<b>0.0844</b>		<b>0.0844</b>	<b>0.0844</b>	<b>0.0000</b>	<b>1,988.2800</b>	<b>1,988.2800</b>	<b>0.5846</b>		<b>2,000.5559</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	0.2466	0.3192	3.4021	0.0157	1.3190	0.0103	1.3293	0.3498	9.5800e-003	0.3594		1,026.9978	1,026.9978	0.0429		1,027.8991
<b>Total</b>	<b>0.2466</b>	<b>0.3192</b>	<b>3.4021</b>	<b>0.0157</b>	<b>1.3190</b>	<b>0.0103</b>	<b>1.3293</b>	<b>0.3498</b>	<b>9.5800e-003</b>	<b>0.3594</b>		<b>1,026.9978</b>	<b>1,026.9978</b>	<b>0.0429</b>		<b>1,027.8991</b>

## **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**

*Phase 5 Construction Emissions*

## Harbor UCLA Master Plan- Phase V South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	234.00	1000sqft	5.37	234,000.00	0
Parking Lot	570.00	Space	5.13	104,005.00	0
Unenclosed Parking with Elevator	1,220.00	Space	10.98	551,150.00	0
User Defined Retail	35,000.00	User Defined Unit	0.00	35,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating - See Input Summary

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	411,635.00	298,289.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,234,905.00	442,809.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	276.00

tblConstructionPhase	NumDays	370.00	173.00
tblConstructionPhase	NumDays	370.00	107.00
tblConstructionPhase	NumDays	370.00	455.00
tblConstructionPhase	NumDays	370.00	260.00
tblConstructionPhase	NumDays	370.00	86.00
tblConstructionPhase	NumDays	370.00	146.00
tblConstructionPhase	NumDays	35.00	173.00
tblConstructionPhase	NumDays	20.00	80.00
tblConstructionPhase	PhaseEndDate	6/20/2030	4/22/2030
tblConstructionPhase	PhaseEndDate	12/1/2025	4/2/2025
tblConstructionPhase	PhaseEndDate	8/29/2025	8/30/2025
tblConstructionPhase	PhaseEndDate	5/28/2027	5/30/2027
tblConstructionPhase	PhaseEndDate	5/26/2028	5/30/2029
tblConstructionPhase	PhaseEndDate	8/20/2030	9/30/2029
tblConstructionPhase	PhaseEndDate	8/12/2030	4/22/2030
tblConstructionPhase	PhaseStartDate	5/31/2029	4/1/2029
tblConstructionPhase	PhaseStartDate	4/3/2025	8/5/2024
tblConstructionPhase	PhaseStartDate	8/31/2025	9/1/2025
tblConstructionPhase	PhaseStartDate	5/31/2027	6/1/2028
tblConstructionPhase	PhaseStartDate	4/23/2030	6/1/2029
tblConstructionPhase	PhaseStartDate	4/23/2030	1/1/2030
tblGrading	MaterialExported	0.00	10,675.00
tblGrading	MaterialImported	0.00	73,803.00
tblLandUse	LandUseSquareFeet	228,000.00	104,005.00
tblLandUse	LandUseSquareFeet	488,000.00	551,150.00
tblLandUse	LandUseSquareFeet	0.00	35,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	10,560.00	14,080.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	WorkerTripNumber	18.00	486.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	72.00	92.00
tblTripsAndVMT	WorkerTripNumber	361.00	465.00
tblTripsAndVMT	WorkerTripNumber	361.00	465.00
tblTripsAndVMT	WorkerTripNumber	20.00	26.00

## 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					
2024	10.0216	45.7490	136.8061	0.4671	28.3239	1.7353	30.0591	7.5236	1.6148	9.1383	0.0000	35,527.1997	35,527.1997	2.3686	0.0000	35,576.9406
2025	9.5611	43.1192	132.6494	0.4671	29.4047	1.5754	30.9801	7.7889	1.4651	9.2540	0.0000	35,256.7203	35,256.7203	2.3386	0.0000	35,305.8307
2026	4.9334	13.0019	74.9633	0.2915	20.7412	0.4277	21.1689	5.5195	0.3947	5.9141	0.0000	20,376.9458	20,376.9458	0.9001	0.0000	20,395.8485
2027	4.7645	12.7719	72.6258	0.2915	20.7413	0.4287	21.1700	5.5195	0.3956	5.9151	0.0000	20,214.7672	20,214.7672	0.8829	0.0000	20,233.3078
2028	5.6486	21.3522	78.4188	0.3135	20.7288	0.7526	21.4814	5.5159	0.6969	6.2128	0.0000	22,172.3287	22,172.3287	1.5112	0.0000	22,204.0631
2029	36.9513	22.5174	80.9621	0.3295	21.7572	0.8127	22.5699	5.7887	0.7564	6.5451	0.0000	23,174.8329	23,174.8329	1.5435	0.0000	23,207.2463
2030	35.2558	18.5879	50.8123	0.1583	7.4610	0.6030	8.0640	1.9973	0.5886	2.5858	0.0000	12,398.2482	12,398.2482	0.4077	0.0000	12,406.8104



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/5/2024	4/2/2025	5	173	
2	Building Construction	Building Construction	8/5/2024	4/2/2025	5	173	
3	Building Construction 2	Building Construction	4/3/2025	8/30/2025	5	107	
4	Building Construction 3	Building Construction	9/1/2025	5/30/2027	5	455	
5	Building Construction 4	Building Construction	6/1/2028	5/30/2029	5	260	
6	Architectural Coating	Architectural Coating	4/1/2029	4/22/2030	5	276	
7	Building Construction 5	Building Construction	6/1/2029	9/30/2029	5	86	
8	Building Construction 6	Building Construction	10/1/2029	4/22/2030	5	146	
9	Paving	Paving	1/1/2030	4/22/2030	5	80	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 442,809; Non-Residential Outdoor: 298,289 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Air Compressors	2	8.00	78	0.48
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Scrapers	0	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20

Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Building Construction 2	Cranes	0	7.00	226	0.29
Building Construction 2	Forklifts	0	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	0	8.00	46	0.45
Building Construction 3	Cranes	0	7.00	226	0.29
Building Construction 3	Forklifts	1	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 3	Welders	0	8.00	46	0.45
Building Construction 4	Cranes	1	7.00	226	0.29
Building Construction 4	Forklifts	1	8.00	89	0.20
Building Construction 4	Generator Sets	0	8.00	84	0.74
Building Construction 4	Rubber Tired Loaders	2	8.00	199	0.36
Building Construction 4	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 4	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction 5	Air Compressors	1	8.00	78	0.48
Building Construction 5	Cranes	2	7.00	226	0.29
Building Construction 5	Forklifts	1	8.00	89	0.20
Building Construction 5	Generator Sets	0	8.00	84	0.74
Building Construction 5	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction 5	Welders	0	8.00	46	0.45
Building Construction 6	Cranes	1	7.00	226	0.29
Building Construction 6	Forklifts	1	8.00	89	0.20
Building Construction 6	Generator Sets	0	8.00	84	0.74
Building Construction 6	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Building Construction 6	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Trenchers	2	8.00	80	0.50

### 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
Grading	7	486.00	4.00	14,080.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	1,770.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	3	1,770.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	3	1,770.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 4	8	1,770.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	92.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 5	5	465.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 6	3	465.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	26.00	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

Clean Paved Roads

### 3.2 Grading - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0552	0.0000	0.0552	8.3600e-003	0.0000	8.3600e-003			0.0000			0.0000
Off-Road	1.3476	11.3151	16.3481	0.0287		0.5090	0.5090		0.4813	0.4813		2,762.3415	2,762.3415	0.6929		2,776.8928
<b>Total</b>	<b>1.3476</b>	<b>11.3151</b>	<b>16.3481</b>	<b>0.0287</b>	<b>0.0552</b>	<b>0.5090</b>	<b>0.5643</b>	<b>8.3600e-003</b>	<b>0.4813</b>	<b>0.4897</b>		<b>2,762.3415</b>	<b>2,762.3415</b>	<b>0.6929</b>		<b>2,776.8928</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	1.0984	9.1489	13.2034	0.0593	2.0826	0.3087	2.3913	0.5515	0.2840	0.8355		5,582.3953	5,582.3953	0.0391		5,583.2173
Vendor	0.0224	0.1431	0.2973	8.6000e-004	0.0250	3.6700e-003	0.0287	7.1200e-003	3.3700e-003	0.0105		80.6408	80.6408	5.4000e-004		80.6522
Worker	1.1435	1.3801	17.6796	0.0691	5.4323	0.0420	5.4743	1.4407	0.0389	1.4796		4,672.4064	4,672.4064	0.1929		4,676.4574
<b>Total</b>	<b>2.2642</b>	<b>10.6721</b>	<b>31.1803</b>	<b>0.1293</b>	<b>7.5400</b>	<b>0.3543</b>	<b>7.8943</b>	<b>1.9993</b>	<b>0.3263</b>	<b>2.3256</b>		<b>10,335.4425</b>	<b>10,335.4425</b>	<b>0.2326</b>		<b>10,340.3268</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	3.2600e-003	0.0000	3.2600e-003			0.0000			0.0000
Off-Road	0.3341	1.4479	18.7096	0.0287		0.0446	0.0446		0.0446	0.0446	0.0000	2,762.3415	2,762.3415	0.6929		2,776.8928
<b>Total</b>	<b>0.3341</b>	<b>1.4479</b>	<b>18.7096</b>	<b>0.0287</b>	<b>0.0215</b>	<b>0.0446</b>	<b>0.0661</b>	<b>3.2600e-003</b>	<b>0.0446</b>	<b>0.0478</b>	<b>0.0000</b>	<b>2,762.3415</b>	<b>2,762.3415</b>	<b>0.6929</b>		<b>2,776.8928</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	1.0984	9.1489	13.2034	0.0593	2.0826	0.3087	2.3913	0.5515	0.2840	0.8355		5,582.3953	5,582.3953	0.0391		5,583.2173
Vendor	0.0224	0.1431	0.2973	8.6000e-004	0.0250	3.6700e-003	0.0287	7.1200e-003	3.3700e-003	0.0105		80.6408	80.6408	5.4000e-004		80.6522
Worker	1.1435	1.3801	17.6796	0.0691	5.4323	0.0420	5.4743	1.4407	0.0389	1.4796		4,672.4064	4,672.4064	0.1929		4,676.4574
<b>Total</b>	<b>2.2642</b>	<b>10.6721</b>	<b>31.1803</b>	<b>0.1293</b>	<b>7.5400</b>	<b>0.3543</b>	<b>7.8943</b>	<b>1.9993</b>	<b>0.3263</b>	<b>2.3256</b>		<b>10,335.4425</b>	<b>10,335.4425</b>	<b>0.2326</b>		<b>10,340.3268</b>

### 3.2 Grading - 2025

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0552	0.0000	0.0552	8.3600e-003	0.0000	8.3600e-003			0.0000			0.0000
Off-Road	1.2475	10.1346	16.2978	0.0287		0.4223	0.4223		0.3995	0.3995		2,763.3888	2,763.3888	0.6919		2,777.9195
<b>Total</b>	<b>1.2475</b>	<b>10.1346</b>	<b>16.2978</b>	<b>0.0287</b>	<b>0.0552</b>	<b>0.4223</b>	<b>0.4775</b>	<b>8.3600e-003</b>	<b>0.3995</b>	<b>0.4078</b>		<b>2,763.3888</b>	<b>2,763.3888</b>	<b>0.6919</b>		<b>2,777.9195</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	1.0923	9.1252	13.1034	0.0593	3.1635	0.3104	3.4739	0.8168	0.2856	1.1024		5,582.5793	5,582.5793	0.0393		5,583.4051
Vendor	0.0220	0.1421	0.2923	8.6000e-004	0.0250	3.6800e-003	0.0287	7.1200e-003	3.3900e-003	0.0105		80.6429	80.6429	5.4000e-004		80.6543
Worker	1.0913	1.3129	16.8809	0.0691	5.4323	0.0421	5.4744	1.4407	0.0390	1.4797		4,613.6306	4,613.6306	0.1868		4,617.5541
<b>Total</b>	<b>2.2056</b>	<b>10.5802</b>	<b>30.2765</b>	<b>0.1293</b>	<b>8.6208</b>	<b>0.3562</b>	<b>8.9770</b>	<b>2.2646</b>	<b>0.3280</b>	<b>2.5926</b>		<b>10,276.8528</b>	<b>10,276.8528</b>	<b>0.2267</b>		<b>10,281.6135</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0215	0.0000	0.0215	3.2600e-003	0.0000	3.2600e-003			0.0000				0.0000
Off-Road	0.3341	1.4479	18.7096	0.0287		0.0446	0.0446		0.0446	0.0446	0.0000	2,763.3888	2,763.3888	0.6919			2,777.9195
<b>Total</b>	<b>0.3341</b>	<b>1.4479</b>	<b>18.7096</b>	<b>0.0287</b>	<b>0.0215</b>	<b>0.0446</b>	<b>0.0661</b>	<b>3.2600e-003</b>	<b>0.0446</b>	<b>0.0478</b>	<b>0.0000</b>	<b>2,763.3888</b>	<b>2,763.3888</b>	<b>0.6919</b>			<b>2,777.9195</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	1.0923	9.1252	13.1034	0.0593	3.1635	0.3104	3.4739	0.8168	0.2856	1.1024		5,582.5793	5,582.5793	0.0393			5,583.4051
Vendor	0.0220	0.1421	0.2923	8.6000e-004	0.0250	3.6800e-003	0.0287	7.1200e-003	3.3900e-003	0.0105		80.6429	80.6429	5.4000e-004			80.6543
Worker	1.0913	1.3129	16.8809	0.0691	5.4323	0.0421	5.4744	1.4407	0.0390	1.4797		4,613.6306	4,613.6306	0.1868			4,617.5541
<b>Total</b>	<b>2.2056</b>	<b>10.5802</b>	<b>30.2765</b>	<b>0.1293</b>	<b>8.6208</b>	<b>0.3562</b>	<b>8.9770</b>	<b>2.2646</b>	<b>0.3280</b>	<b>2.5926</b>		<b>10,276.8528</b>	<b>10,276.8528</b>	<b>0.2267</b>			<b>10,281.6135</b>

**3.3 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4018	13.3329	13.6661	0.0249		0.5808	0.5808		0.5381	0.5381		2,368.4381	2,368.4381	0.7201			2,383.5596
<b>Total</b>	<b>1.4018</b>	<b>13.3329</b>	<b>13.6661</b>	<b>0.0249</b>		<b>0.5808</b>	<b>0.5808</b>		<b>0.5381</b>	<b>0.5381</b>		<b>2,368.4381</b>	<b>2,368.4381</b>	<b>0.7201</b>			<b>2,383.5596</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	0.8436	5.4027	11.2229	0.0325	0.9442	0.1384	1.0826	0.2689	0.1273	0.3963		3,044.1888	3,044.1888	0.0205			3,044.6190
Worker	4.1645	5.0262	64.3886	0.2517	19.7844	0.1528	19.9372	5.2469	0.1418	5.3887		17,016.7889	17,016.7889	0.7026			17,031.5424
<b>Total</b>	<b>5.0080</b>	<b>10.4289</b>	<b>75.6116</b>	<b>0.2842</b>	<b>20.7287</b>	<b>0.2912</b>	<b>21.0198</b>	<b>5.5159</b>	<b>0.2691</b>	<b>5.7849</b>		<b>20,060.9777</b>	<b>20,060.9777</b>	<b>0.7230</b>			<b>20,076.1614</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	0.5090	2.5644	15.4728	0.0249		0.0839	0.0839		0.0839	0.0839	0.0000	2,368.4380	2,368.4380	0.7201			2,383.5596
<b>Total</b>	<b>0.5090</b>	<b>2.5644</b>	<b>15.4728</b>	<b>0.0249</b>		<b>0.0839</b>	<b>0.0839</b>		<b>0.0839</b>	<b>0.0839</b>	<b>0.0000</b>	<b>2,368.4380</b>	<b>2,368.4380</b>	<b>0.7201</b>			<b>2,383.5596</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	0.8436	5.4027	11.2229	0.0325	0.9442	0.1384	1.0826	0.2689	0.1273	0.3963		3,044.1888	3,044.1888	0.0205			3,044.6190
Worker	4.1645	5.0262	64.3886	0.2517	19.7844	0.1528	19.9372	5.2469	0.1418	5.3887		17,016.7889	17,016.7889	0.7026			17,031.5424
<b>Total</b>	<b>5.0080</b>	<b>10.4289</b>	<b>75.6116</b>	<b>0.2842</b>	<b>20.7287</b>	<b>0.2912</b>	<b>21.0198</b>	<b>5.5159</b>	<b>0.2691</b>	<b>5.7849</b>		<b>20,060.9777</b>	<b>20,060.9777</b>	<b>0.7230</b>			<b>20,076.1614</b>

### 3.3 Building Construction - 2025

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3047	12.2573	13.5622	0.0249		0.5046	0.5046		0.4675	0.4675		2,369.4823	2,369.4823	0.7190		2,384.5803
<b>Total</b>	<b>1.3047</b>	<b>12.2573</b>	<b>13.5622</b>	<b>0.0249</b>		<b>0.5046</b>	<b>0.5046</b>		<b>0.4675</b>	<b>0.4675</b>		<b>2,369.4823</b>	<b>2,369.4823</b>	<b>0.7190</b>		<b>2,384.5803</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	0.8289	5.3657	11.0330	0.0325	0.9443	0.1391	1.0833	0.2690	0.1280	0.3969		3,044.2676	3,044.2676	0.0206		3,044.6994
Worker	3.9745	4.7814	61.4799	0.2517	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		16,802.7289	16,802.7289	0.6804		16,817.0181
<b>Total</b>	<b>4.8034</b>	<b>10.1470</b>	<b>72.5128</b>	<b>0.2842</b>	<b>20.7287</b>	<b>0.2924</b>	<b>21.0210</b>	<b>5.5159</b>	<b>0.2702</b>	<b>5.7860</b>		<b>19,846.9965</b>	<b>19,846.9965</b>	<b>0.7010</b>		<b>19,861.7175</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	0.4929	2.5257	15.4608	0.0249		0.0773	0.0773		0.0773	0.0773	0.0000	2,369.4823	2,369.4823	0.7190		2,384.5803
<b>Total</b>	<b>0.4929</b>	<b>2.5257</b>	<b>15.4608</b>	<b>0.0249</b>		<b>0.0773</b>	<b>0.0773</b>		<b>0.0773</b>	<b>0.0773</b>	<b>0.0000</b>	<b>2,369.4823</b>	<b>2,369.4823</b>	<b>0.7190</b>		<b>2,384.5803</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	0.8289	5.3657	11.0330	0.0325	0.9443	0.1391	1.0833	0.2690	0.1280	0.3969		3,044.2676	3,044.2676	0.0206			3,044.6994
Worker	3.9745	4.7814	61.4799	0.2517	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		16,802.7289	16,802.7289	0.6804			16,817.0181
<b>Total</b>	<b>4.8034</b>	<b>10.1470</b>	<b>72.5128</b>	<b>0.2842</b>	<b>20.7287</b>	<b>0.2924</b>	<b>21.0210</b>	<b>5.5159</b>	<b>0.2702</b>	<b>5.7860</b>		<b>19,846.9965</b>	<b>19,846.9965</b>	<b>0.7010</b>			<b>19,861.7175</b>

**3.4 Building Construction 2 - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.3468	3.5046	5.8529	8.1900e-003		0.1420	0.1420		0.1306	0.1306		792.8966	792.8966	0.2564			798.2818
<b>Total</b>	<b>0.3468</b>	<b>3.5046</b>	<b>5.8529</b>	<b>8.1900e-003</b>		<b>0.1420</b>	<b>0.1420</b>		<b>0.1306</b>	<b>0.1306</b>		<b>792.8966</b>	<b>792.8966</b>	<b>0.2564</b>			<b>798.2818</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	0.8399	5.4368	11.1791	0.0329	0.9568	0.1409	1.0977	0.2725	0.1297	0.4022		3,084.5890	3,084.5890	0.0208			3,085.0265
Worker	3.9745	4.7814	61.4799	0.2517	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		16,802.7289	16,802.7289	0.6804			16,817.0181
<b>Total</b>	<b>4.8144</b>	<b>10.2181</b>	<b>72.6589</b>	<b>0.2846</b>	<b>20.7412</b>	<b>0.2942</b>	<b>21.0354</b>	<b>5.5194</b>	<b>0.2719</b>	<b>5.7913</b>		<b>19,887.3179</b>	<b>19,887.3179</b>	<b>0.7013</b>			<b>19,902.0446</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	0.0997	0.4320	6.1479	8.1900e-003		0.0133	0.0133		0.0133	0.0133	0.0000	792.8966	792.8966	0.2564		798.2818
<b>Total</b>	<b>0.0997</b>	<b>0.4320</b>	<b>6.1479</b>	<b>8.1900e-003</b>		<b>0.0133</b>	<b>0.0133</b>		<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>792.8966</b>	<b>792.8966</b>	<b>0.2564</b>		<b>798.2818</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	0.8399	5.4368	11.1791	0.0329	0.9568	0.1409	1.0977	0.2725	0.1297	0.4022		3,084.5890	3,084.5890	0.0208		3,085.0265
Worker	3.9745	4.7814	61.4799	0.2517	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		16,802.7289	16,802.7289	0.6804		16,817.0181
<b>Total</b>	<b>4.8144</b>	<b>10.2181</b>	<b>72.6589</b>	<b>0.2846</b>	<b>20.7412</b>	<b>0.2942</b>	<b>21.0354</b>	<b>5.5194</b>	<b>0.2719</b>	<b>5.7913</b>		<b>19,887.3179</b>	<b>19,887.3179</b>	<b>0.7013</b>		<b>19,902.0446</b>

**3.5 Building Construction 3 - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3181	3.1550	5.0357	6.9900e-003		0.1385	0.1385		0.1274	0.1274		676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.3181</b>	<b>3.1550</b>	<b>5.0357</b>	<b>6.9900e-003</b>		<b>0.1385</b>	<b>0.1385</b>		<b>0.1274</b>	<b>0.1274</b>		<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8399	5.4368	11.1791	0.0329	0.9568	0.1409	1.0977	0.2725	0.1297	0.4022		3,084.5890	3,084.5890	0.0208		3,085.0265
Worker	3.9745	4.7814	61.4799	0.2517	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		16,802.7289	16,802.7289	0.6804		16,817.0181
<b>Total</b>	<b>4.8144</b>	<b>10.2181</b>	<b>72.6589</b>	<b>0.2846</b>	<b>20.7412</b>	<b>0.2942</b>	<b>21.0354</b>	<b>5.5194</b>	<b>0.2719</b>	<b>5.7913</b>		<b>19,887.3179</b>	<b>19,887.3179</b>	<b>0.7013</b>		<b>19,902.0446</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	0.0853	0.3696	5.2602	6.9900e-003		0.0114	0.0114		0.0114	0.0114	0.0000	676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.0853</b>	<b>0.3696</b>	<b>5.2602</b>	<b>6.9900e-003</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8399	5.4368	11.1791	0.0329	0.9568	0.1409	1.0977	0.2725	0.1297	0.4022		3,084.5890	3,084.5890	0.0208		3,085.0265
Worker	3.9745	4.7814	61.4799	0.2517	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		16,802.7289	16,802.7289	0.6804		16,817.0181
<b>Total</b>	<b>4.8144</b>	<b>10.2181</b>	<b>72.6589</b>	<b>0.2846</b>	<b>20.7412</b>	<b>0.2942</b>	<b>21.0354</b>	<b>5.5194</b>	<b>0.2719</b>	<b>5.7913</b>		<b>19,887.3179</b>	<b>19,887.3179</b>	<b>0.7013</b>		<b>19,902.0446</b>

### 3.5 Building Construction 3 - 2026

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3181	3.1550	5.0357	6.9900e-003		0.1385	0.1385		0.1274	0.1274		676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.3181</b>	<b>3.1550</b>	<b>5.0357</b>	<b>6.9900e-003</b>		<b>0.1385</b>	<b>0.1385</b>		<b>0.1274</b>	<b>0.1274</b>		<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8137	5.2768	10.9663	0.0329	0.9568	0.1350	1.0918	0.2725	0.1242	0.3968		3,083.8947	3,083.8947	0.0202		3,084.3187
Worker	3.8016	4.5701	58.9613	0.2516	19.7844	0.1542	19.9386	5.2469	0.1431	5.3900		16,616.4225	16,616.4225	0.6611		16,630.3057
<b>Total</b>	<b>4.6153</b>	<b>9.8470</b>	<b>69.9276</b>	<b>0.2845</b>	<b>20.7412</b>	<b>0.2892</b>	<b>21.0304</b>	<b>5.5195</b>	<b>0.2673</b>	<b>5.7867</b>		<b>19,700.3172</b>	<b>19,700.3172</b>	<b>0.6813</b>		<b>19,714.6244</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	0.0853	0.3696	5.2602	6.9900e-003		0.0114	0.0114		0.0114	0.0114	0.0000	676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.0853</b>	<b>0.3696</b>	<b>5.2602</b>	<b>6.9900e-003</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8137	5.2768	10.9663	0.0329	0.9568	0.1350	1.0918	0.2725	0.1242	0.3968		3,083.8947	3,083.8947	0.0202		3,084.3187
Worker	3.8016	4.5701	58.9613	0.2516	19.7844	0.1542	19.9386	5.2469	0.1431	5.3900		16,616.4225	16,616.4225	0.6611		16,630.3057
<b>Total</b>	<b>4.6153</b>	<b>9.8470</b>	<b>69.9276</b>	<b>0.2845</b>	<b>20.7412</b>	<b>0.2892</b>	<b>21.0304</b>	<b>5.5195</b>	<b>0.2673</b>	<b>5.7867</b>		<b>19,700.3172</b>	<b>19,700.3172</b>	<b>0.6813</b>		<b>19,714.6244</b>

**3.5 Building Construction 3 - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3181	3.1550	5.0357	6.9900e-003		0.1385	0.1385		0.1274	0.1274		676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.3181</b>	<b>3.1550</b>	<b>5.0357</b>	<b>6.9900e-003</b>		<b>0.1385</b>	<b>0.1385</b>		<b>0.1274</b>	<b>0.1274</b>		<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8059	5.2357	10.8624	0.0329	0.9568	0.1354	1.0922	0.2726	0.1245	0.3971		3,084.0561	3,084.0561	0.0202		3,084.4810
Worker	3.6405	4.3813	56.7278	0.2516	19.7844	0.1549	19.9393	5.2469	0.1437	5.3906		16,454.0825	16,454.0825	0.6438		16,467.6027
<b>Total</b>	<b>4.4464</b>	<b>9.6170</b>	<b>67.5902</b>	<b>0.2845</b>	<b>20.7413</b>	<b>0.2902</b>	<b>21.0315</b>	<b>5.5195</b>	<b>0.2682</b>	<b>5.7877</b>		<b>19,538.1386</b>	<b>19,538.1386</b>	<b>0.6641</b>		<b>19,552.0837</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	0.0853	0.3696	5.2602	6.9900e-003		0.0114	0.0114		0.0114	0.0114	0.0000	676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.0853</b>	<b>0.3696</b>	<b>5.2602</b>	<b>6.9900e-003</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8059	5.2357	10.8624	0.0329	0.9568	0.1354	1.0922	0.2726	0.1245	0.3971		3,084.0561	3,084.0561	0.0202		3,084.4810
Worker	3.6405	4.3813	56.7278	0.2516	19.7844	0.1549	19.9393	5.2469	0.1437	5.3906		16,454.0825	16,454.0825	0.6438		16,467.6027
<b>Total</b>	<b>4.4464</b>	<b>9.6170</b>	<b>67.5902</b>	<b>0.2845</b>	<b>20.7413</b>	<b>0.2902</b>	<b>21.0315</b>	<b>5.5195</b>	<b>0.2682</b>	<b>5.7877</b>		<b>19,538.1386</b>	<b>19,538.1386</b>	<b>0.6641</b>		<b>19,552.0837</b>

**3.6 Building Construction 4 - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3695	12.0213	13.0099	0.0295		0.4644	0.4644		0.4305	0.4305		2,814.1711	2,814.1711	0.8628		2,832.2893
<b>Total</b>	<b>1.3695</b>	<b>12.0213</b>	<b>13.0099</b>	<b>0.0295</b>		<b>0.4644</b>	<b>0.4644</b>		<b>0.4305</b>	<b>0.4305</b>		<b>2,814.1711</b>	<b>2,814.1711</b>	<b>0.8628</b>		<b>2,832.2893</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	0.7857	5.1189	10.6231	0.0325	0.9444	0.1327	1.0771	0.2690	0.1221	0.3911		3,043.7079	3,043.7079	0.0199		3,044.1253
Worker	3.4934	4.2121	54.7858	0.2516	19.7844	0.1555	19.9399	5.2469	0.1443	5.3912		16,314.4498	16,314.4498	0.6285		16,327.6485
<b>Total</b>	<b>4.2791</b>	<b>9.3309</b>	<b>65.4089</b>	<b>0.2840</b>	<b>20.7288</b>	<b>0.2882</b>	<b>21.0170</b>	<b>5.5159</b>	<b>0.2664</b>	<b>5.7823</b>		<b>19,358.1576</b>	<b>19,358.1576</b>	<b>0.6484</b>		<b>19,371.7738</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	0.5506	2.7757	16.7458	0.0295		0.0850	0.0850		0.0850	0.0850	0.0000	2,814.1711	2,814.1711	0.8628		2,832.2893
<b>Total</b>	<b>0.5506</b>	<b>2.7757</b>	<b>16.7458</b>	<b>0.0295</b>		<b>0.0850</b>	<b>0.0850</b>		<b>0.0850</b>	<b>0.0850</b>	<b>0.0000</b>	<b>2,814.1711</b>	<b>2,814.1711</b>	<b>0.8628</b>		<b>2,832.2893</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	0.7857	5.1189	10.6231	0.0325	0.9444	0.1327	1.0771	0.2690	0.1221	0.3911		3,043.7079	3,043.7079	0.0199		3,044.1253
Worker	3.4934	4.2121	54.7858	0.2516	19.7844	0.1555	19.9399	5.2469	0.1443	5.3912		16,314.4498	16,314.4498	0.6285		16,327.6485
<b>Total</b>	<b>4.2791</b>	<b>9.3309</b>	<b>65.4089</b>	<b>0.2840</b>	<b>20.7288</b>	<b>0.2882</b>	<b>21.0170</b>	<b>5.5159</b>	<b>0.2664</b>	<b>5.7823</b>		<b>19,358.1576</b>	<b>19,358.1576</b>	<b>0.6484</b>		<b>19,371.7738</b>

### 3.6 Building Construction 4 - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3695	12.0213	13.0099	0.0295		0.4644	0.4644		0.4305	0.4305		2,814.1711	2,814.1711	0.8628		2,832.2893
<b>Total</b>	<b>1.3695</b>	<b>12.0213</b>	<b>13.0099</b>	<b>0.0295</b>		<b>0.4644</b>	<b>0.4644</b>		<b>0.4305</b>	<b>0.4305</b>		<b>2,814.1711</b>	<b>2,814.1711</b>	<b>0.8628</b>		<b>2,832.2893</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	0.7777	5.0946	10.5204	0.0325	0.9444	0.1329	1.0773	0.2690	0.1223	0.3913		3,043.7575	3,043.7575	0.0199		3,044.1754
Worker	3.3453	4.0458	52.8744	0.2515	19.7844	0.1558	19.9402	5.2469	0.1446	5.3915		16,193.7474	16,193.7474	0.6136		16,206.6326
<b>Total</b>	<b>4.1230</b>	<b>9.1403</b>	<b>63.3948</b>	<b>0.2840</b>	<b>20.7289</b>	<b>0.2887</b>	<b>21.0176</b>	<b>5.5159</b>	<b>0.2668</b>	<b>5.7828</b>		<b>19,237.5049</b>	<b>19,237.5049</b>	<b>0.6335</b>		<b>19,250.8079</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	0.5506	2.7757	16.7458	0.0295		0.0850	0.0850		0.0850	0.0850	0.0000	2,814.1711	2,814.1711	0.8628		2,832.2893
<b>Total</b>	<b>0.5506</b>	<b>2.7757</b>	<b>16.7458</b>	<b>0.0295</b>		<b>0.0850</b>	<b>0.0850</b>		<b>0.0850</b>	<b>0.0850</b>	<b>0.0000</b>	<b>2,814.1711</b>	<b>2,814.1711</b>	<b>0.8628</b>		<b>2,832.2893</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	0.7777	5.0946	10.5204	0.0325	0.9444	0.1329	1.0773	0.2690	0.1223	0.3913		3,043.7575	3,043.7575	0.0199			3,044.1754
Worker	3.3453	4.0458	52.8744	0.2515	19.7844	0.1558	19.9402	5.2469	0.1446	5.3915		16,193.7474	16,193.7474	0.6136			16,206.6326
<b>Total</b>	<b>4.1230</b>	<b>9.1403</b>	<b>63.3948</b>	<b>0.2840</b>	<b>20.7289</b>	<b>0.2887</b>	<b>21.0176</b>	<b>5.5159</b>	<b>0.2668</b>	<b>5.7828</b>		<b>19,237.5049</b>	<b>19,237.5049</b>	<b>0.6335</b>			<b>19,250.8079</b>

### 3.7 Architectural Coating - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	31.1140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154			281.7705
<b>Total</b>	<b>31.2849</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>			<b>281.7705</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	0.1739	0.2103	2.7483	0.0131	1.0283	8.1000e-003	1.0364	0.2727	7.5100e-003	0.2802		841.7089	841.7089	0.0319			842.3786
<b>Total</b>	<b>0.1739</b>	<b>0.2103</b>	<b>2.7483</b>	<b>0.0131</b>	<b>1.0283</b>	<b>8.1000e-003</b>	<b>1.0364</b>	<b>0.2727</b>	<b>7.5100e-003</b>	<b>0.2802</b>		<b>841.7089</b>	<b>841.7089</b>	<b>0.0319</b>			<b>842.3786</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	31.1140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>31.1437</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.1739	0.2103	2.7483	0.0131	1.0283	8.1000e-003	1.0364	0.2727	7.5100e-003	0.2802		841.7089	841.7089	0.0319		842.3786
<b>Total</b>	<b>0.1739</b>	<b>0.2103</b>	<b>2.7483</b>	<b>0.0131</b>	<b>1.0283</b>	<b>8.1000e-003</b>	<b>1.0364</b>	<b>0.2727</b>	<b>7.5100e-003</b>	<b>0.2802</b>		<b>841.7089</b>	<b>841.7089</b>	<b>0.0319</b>		<b>842.3786</b>

### 3.7 Architectural Coating - 2030

#### 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	31.1140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.6873
<b>Total</b>	<b>31.2448</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.6873</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	0.1665	0.2021	2.6601	0.0131	1.0283	8.1000e-003	1.0364	0.2727	7.5200e-003	0.2802		836.3245	836.3245	0.0312		836.9790
<b>Total</b>	<b>0.1665</b>	<b>0.2021</b>	<b>2.6601</b>	<b>0.0131</b>	<b>1.0283</b>	<b>8.1000e-003</b>	<b>1.0364</b>	<b>0.2727</b>	<b>7.5200e-003</b>	<b>0.2802</b>		<b>836.3245</b>	<b>836.3245</b>	<b>0.0312</b>		<b>836.9790</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	31.1140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003	3.9600e-003	3.9600e-003	3.9600e-003	3.9600e-003	3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.6873
<b>Total</b>	<b>31.1437</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.6873</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	0.1665	0.2021	2.6601	0.0131	1.0283	8.1000e-003	1.0364	0.2727	7.5200e-003	0.2802		836.3245	836.3245	0.0312		836.9790
<b>Total</b>	<b>0.1665</b>	<b>0.2021</b>	<b>2.6601</b>	<b>0.0131</b>	<b>1.0283</b>	<b>8.1000e-003</b>	<b>1.0364</b>	<b>0.2727</b>	<b>7.5200e-003</b>	<b>0.2802</b>		<b>836.3245</b>	<b>836.3245</b>	<b>0.0312</b>		<b>836.9790</b>

### 3.8 Building Construction 5 - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9659	8.9380	8.4699	0.0181		0.3904	0.3904		0.3647	0.3647		1,744.3720	1,744.3720	0.4633		1,754.1006
<b>Total</b>	<b>0.9659</b>	<b>8.9380</b>	<b>8.4699</b>	<b>0.0181</b>		<b>0.3904</b>	<b>0.3904</b>		<b>0.3647</b>	<b>0.3647</b>		<b>1,744.3720</b>	<b>1,744.3720</b>	<b>0.4633</b>		<b>1,754.1006</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	0.7880	5.1620	10.6597	0.0329	0.9569	0.1347	1.0916	0.2726	0.1239	0.3965		3,084.0721	3,084.0721	0.0202		3,084.4956
Worker	0.8789	1.0629	13.8907	0.0661	5.1976	0.0409	5.2385	1.3784	0.0380	1.4164		4,254.2896	4,254.2896	0.1612		4,257.6747
<b>Total</b>	<b>1.6669</b>	<b>6.2249</b>	<b>24.5505</b>	<b>0.0990</b>	<b>6.1545</b>	<b>0.1756</b>	<b>6.3301</b>	<b>1.6510</b>	<b>0.1619</b>	<b>1.8129</b>		<b>7,338.3617</b>	<b>7,338.3617</b>	<b>0.1814</b>		<b>7,342.1702</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	0.2131	0.9233	10.1044	0.0181		0.0284	0.0284		0.0284	0.0284	0.0000	1,744.3720	1,744.3720	0.4633		1,754.1006
<b>Total</b>	<b>0.2131</b>	<b>0.9233</b>	<b>10.1044</b>	<b>0.0181</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>	<b>0.0000</b>	<b>1,744.3720</b>	<b>1,744.3720</b>	<b>0.4633</b>		<b>1,754.1006</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	0.7880	5.1620	10.6597	0.0329	0.9569	0.1347	1.0916	0.2726	0.1239	0.3965		3,084.0721	3,084.0721	0.0202			3,084.4956
Worker	0.8789	1.0629	13.8907	0.0661	5.1976	0.0409	5.2385	1.3784	0.0380	1.4164		4,254.2896	4,254.2896	0.1612			4,257.6747
<b>Total</b>	<b>1.6669</b>	<b>6.2249</b>	<b>24.5505</b>	<b>0.0990</b>	<b>6.1545</b>	<b>0.1756</b>	<b>6.3301</b>	<b>1.6510</b>	<b>0.1619</b>	<b>1.8129</b>		<b>7,338.3617</b>	<b>7,338.3617</b>	<b>0.1814</b>			<b>7,342.1702</b>

**3.9 Building Construction 6 - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.4703	4.6987	4.5712	9.2000e-003		0.2064	0.2064		0.1899	0.1899		890.7188	890.7188	0.2881			896.7684
<b>Total</b>	<b>0.4703</b>	<b>4.6987</b>	<b>4.5712</b>	<b>9.2000e-003</b>		<b>0.2064</b>	<b>0.2064</b>		<b>0.1899</b>	<b>0.1899</b>		<b>890.7188</b>	<b>890.7188</b>	<b>0.2881</b>			<b>896.7684</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	0.7777	5.0946	10.5204	0.0325	0.9444	0.1329	1.0773	0.2690	0.1223	0.3913		3,043.7575	3,043.7575	0.0199			3,044.1754
Worker	0.8789	1.0629	13.8907	0.0661	5.1976	0.0409	5.2385	1.3784	0.0380	1.4164		4,254.2896	4,254.2896	0.1612			4,257.6747
<b>Total</b>	<b>1.6566</b>	<b>6.1574</b>	<b>24.4111</b>	<b>0.0986</b>	<b>6.1420</b>	<b>0.1739</b>	<b>6.3159</b>	<b>1.6475</b>	<b>0.1603</b>	<b>1.8077</b>		<b>7,298.0470</b>	<b>7,298.0470</b>	<b>0.1811</b>			<b>7,301.8500</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	0.1128	0.4886	5.4360	9.2000e-003		0.0150	0.0150		0.0150	0.0150	0.0000	890.7188	890.7188	0.2881		896.7684
<b>Total</b>	<b>0.1128</b>	<b>0.4886</b>	<b>5.4360</b>	<b>9.2000e-003</b>		<b>0.0150</b>	<b>0.0150</b>		<b>0.0150</b>	<b>0.0150</b>	<b>0.0000</b>	<b>890.7188</b>	<b>890.7188</b>	<b>0.2881</b>		<b>896.7684</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	0.7777	5.0946	10.5204	0.0325	0.9444	0.1329	1.0773	0.2690	0.1223	0.3913		3,043.7575	3,043.7575	0.0199		3,044.1754
Worker	0.8789	1.0629	13.8907	0.0661	5.1976	0.0409	5.2385	1.3784	0.0380	1.4164		4,254.2896	4,254.2896	0.1612		4,257.6747
<b>Total</b>	<b>1.6566</b>	<b>6.1574</b>	<b>24.4111</b>	<b>0.0986</b>	<b>6.1420</b>	<b>0.1739</b>	<b>6.3159</b>	<b>1.6475</b>	<b>0.1603</b>	<b>1.8077</b>		<b>7,298.0470</b>	<b>7,298.0470</b>	<b>0.1811</b>		<b>7,301.8500</b>

### 3.9 Building Construction 6 - 2030

#### 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	0.4661	2.1442	4.4049	0.0113		0.0475	0.0475		0.0475	0.0475		1,067.9716	1,067.9716	0.0414		1,068.8403
<b>Total</b>	<b>0.4661</b>	<b>2.1442</b>	<b>4.4049</b>	<b>0.0113</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>		<b>1,067.9716</b>	<b>1,067.9716</b>	<b>0.0414</b>		<b>1,068.8403</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	0.7698	5.0732	10.4473	0.0325	0.9444	0.1331	1.0776	0.2690	0.1225	0.3915		3,043.7473	3,043.7473	0.0199			3,044.1657
Worker	0.8416	1.0217	13.4453	0.0661	5.1976	0.0410	5.2386	1.3784	0.0380	1.4164		4,227.0750	4,227.0750	0.1575			4,230.3829
<b>Total</b>	<b>1.6113</b>	<b>6.0949</b>	<b>23.8926</b>	<b>0.0985</b>	<b>6.1420</b>	<b>0.1741</b>	<b>6.3161</b>	<b>1.6475</b>	<b>0.1605</b>	<b>1.8079</b>		<b>7,270.8224</b>	<b>7,270.8224</b>	<b>0.1774</b>			<b>7,274.5486</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	0.1128	0.4886	5.4360	0.0113		0.0150	0.0150		0.0150	0.0150	0.0000	1,067.9716	1,067.9716	0.0414			1,068.8403
<b>Total</b>	<b>0.1128</b>	<b>0.4886</b>	<b>5.4360</b>	<b>0.0113</b>		<b>0.0150</b>	<b>0.0150</b>		<b>0.0150</b>	<b>0.0150</b>	<b>0.0000</b>	<b>1,067.9716</b>	<b>1,067.9716</b>	<b>0.0414</b>			<b>1,068.8403</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	0.7698	5.0732	10.4473	0.0325	0.9444	0.1331	1.0776	0.2690	0.1225	0.3915		3,043.7473	3,043.7473	0.0199			3,044.1657
Worker	0.8416	1.0217	13.4453	0.0661	5.1976	0.0410	5.2386	1.3784	0.0380	1.4164		4,227.0750	4,227.0750	0.1575			4,230.3829
<b>Total</b>	<b>1.6113</b>	<b>6.0949</b>	<b>23.8926</b>	<b>0.0985</b>	<b>6.1420</b>	<b>0.1741</b>	<b>6.3161</b>	<b>1.6475</b>	<b>0.1605</b>	<b>1.8079</b>		<b>7,270.8224</b>	<b>7,270.8224</b>	<b>0.1774</b>			<b>7,274.5486</b>

### 3.10 Paving - 2030

#### 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	1.5520	9.2333	17.3052	0.0287		0.3507	0.3507		0.3507	0.3507		2,705.3292	2,705.3292	0.1376		2,708.2177
Paving	0.1680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7201</b>	<b>9.2333</b>	<b>17.3052</b>	<b>0.0287</b>		<b>0.3507</b>	<b>0.3507</b>		<b>0.3507</b>	<b>0.3507</b>		<b>2,705.3292</b>	<b>2,705.3292</b>	<b>0.1376</b>		<b>2,708.2177</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	0.0471	0.0571	0.7518	3.6900e-003	0.2906	2.2900e-003	0.2929	0.0771	2.1200e-003	0.0792		236.3526	236.3526	8.8100e-003		236.5375
<b>Total</b>	<b>0.0471</b>	<b>0.0571</b>	<b>0.7518</b>	<b>3.6900e-003</b>	<b>0.2906</b>	<b>2.2900e-003</b>	<b>0.2929</b>	<b>0.0771</b>	<b>2.1200e-003</b>	<b>0.0792</b>		<b>236.3526</b>	<b>236.3526</b>	<b>8.8100e-003</b>		<b>236.5375</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	0.3391	1.5828	17.5929	0.0287		0.0517	0.0517		0.0517	0.0517	0.0000	2,705.3292	2,705.3292	0.1376		2,708.2177
Paving	0.1680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5071</b>	<b>1.5828</b>	<b>17.5929</b>	<b>0.0287</b>		<b>0.0517</b>	<b>0.0517</b>		<b>0.0517</b>	<b>0.0517</b>	<b>0.0000</b>	<b>2,705.3292</b>	<b>2,705.3292</b>	<b>0.1376</b>		<b>2,708.2177</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	0.0471	0.0571	0.7518	3.6900e-003	0.2906	2.2900e-003	0.2929	0.0771	2.1200e-003	0.0792		236.3526	236.3526	8.8100e-003		236.5375
<b>Total</b>	<b>0.0471</b>	<b>0.0571</b>	<b>0.7518</b>	<b>3.6900e-003</b>	<b>0.2906</b>	<b>2.2900e-003</b>	<b>0.2929</b>	<b>0.0771</b>	<b>2.1200e-003</b>	<b>0.0792</b>		<b>236.3526</b>	<b>236.3526</b>	<b>8.8100e-003</b>		<b>236.5375</b>

## Harbor UCLA Master Plan- Phase V South Coast Air Basin, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	234.00	1000sqft	5.37	234,000.00	0
Parking Lot	570.00	Space	5.13	104,005.00	0
Unenclosed Parking with Elevator	1,220.00	Space	10.98	551,150.00	0
User Defined Retail	35,000.00	User Defined Unit	0.00	35,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Grading -

Architectural Coating - See Input Summary

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	411,635.00	298,289.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,234,905.00	442,809.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	276.00

tblConstructionPhase	NumDays	370.00	173.00
tblConstructionPhase	NumDays	370.00	107.00
tblConstructionPhase	NumDays	370.00	455.00
tblConstructionPhase	NumDays	370.00	260.00
tblConstructionPhase	NumDays	370.00	86.00
tblConstructionPhase	NumDays	370.00	146.00
tblConstructionPhase	NumDays	35.00	173.00
tblConstructionPhase	NumDays	20.00	80.00
tblConstructionPhase	PhaseEndDate	6/20/2030	4/22/2030
tblConstructionPhase	PhaseEndDate	12/1/2025	4/2/2025
tblConstructionPhase	PhaseEndDate	8/29/2025	8/30/2025
tblConstructionPhase	PhaseEndDate	5/28/2027	5/30/2027
tblConstructionPhase	PhaseEndDate	5/26/2028	5/30/2029
tblConstructionPhase	PhaseEndDate	8/20/2030	9/30/2029
tblConstructionPhase	PhaseEndDate	8/12/2030	4/22/2030
tblConstructionPhase	PhaseStartDate	5/31/2029	4/1/2029
tblConstructionPhase	PhaseStartDate	4/3/2025	8/5/2024
tblConstructionPhase	PhaseStartDate	8/31/2025	9/1/2025
tblConstructionPhase	PhaseStartDate	5/31/2027	6/1/2028
tblConstructionPhase	PhaseStartDate	4/23/2030	6/1/2029
tblConstructionPhase	PhaseStartDate	4/23/2030	1/1/2030
tblGrading	MaterialExported	0.00	10,675.00
tblGrading	MaterialImported	0.00	73,803.00
tblLandUse	LandUseSquareFeet	228,000.00	104,005.00
tblLandUse	LandUseSquareFeet	488,000.00	551,150.00
tblLandUse	LandUseSquareFeet	0.00	35,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	10,560.00	14,080.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	VendorTripNumber	151.00	153.00
tblTripsAndVMT	WorkerTripNumber	18.00	486.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	361.00	1,770.00
tblTripsAndVMT	WorkerTripNumber	72.00	92.00
tblTripsAndVMT	WorkerTripNumber	361.00	465.00
tblTripsAndVMT	WorkerTripNumber	361.00	465.00
tblTripsAndVMT	WorkerTripNumber	20.00	26.00

## 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					
2024	10.2227	46.7681	133.8752	0.4462	28.3239	1.7370	30.0608	7.5236	1.6163	9.1399	0.0000	34,112.8613	34,112.8613	2.3702	0.0000	34,162.6348
2025	9.7537	44.1022	129.8707	0.4461	29.4047	1.5771	30.9818	7.7889	1.4667	9.2556	0.0000	33,856.7108	33,856.7108	2.3401	0.0000	33,905.8538
2026	5.0593	13.5206	71.7491	0.2751	20.7412	0.4288	21.1700	5.5195	0.3957	5.9151	0.0000	19,293.3621	19,293.3621	0.9010	0.0000	19,312.2825
2027	4.8866	13.2689	69.5303	0.2751	20.7413	0.4298	21.1710	5.5195	0.3966	5.9161	0.0000	19,139.4034	19,139.4034	0.8837	0.0000	19,157.9618
2028	5.7666	21.8281	75.3966	0.2971	20.7288	0.7537	21.4825	5.5159	0.6979	6.2138	0.0000	21,104.1362	21,104.1362	1.5120	0.0000	21,135.8881
2029	37.0698	22.9938	77.7549	0.3122	21.7572	0.8138	22.5710	5.7887	0.7573	6.5460	0.0000	22,058.3051	22,058.3051	1.5443	0.0000	22,090.7361
2030	35.3331	18.7898	51.5548	0.1527	7.4610	0.6040	8.0650	1.9973	0.5896	2.5868	0.0000	12,032.3456	12,032.3456	0.4086	0.0000	12,040.9253

<b>Total</b>	<b>108.0918</b>	<b>181.2714</b>	<b>609.7316</b>	<b>2.2046</b>	<b>149.1581</b>	<b>6.3440</b>	<b>155.5020</b>	<b>39.6532</b>	<b>5.9200</b>	<b>45.5732</b>	<b>0.0000</b>	<b>161,597.1244</b>	<b>161,597.1244</b>	<b>9.9599</b>	<b>0.0000</b>	<b>161,806.2825</b>
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### 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					
2024	8.3164	26.1323	138.0434	0.4462	28.2902	0.7756	29.0658	7.5185	0.7254	8.2438	0.0000	34,112.8613	34,112.8613	2.3702	0.0000	34,162.6348
2025	8.0286	25.6838	134.1810	0.4461	29.3710	0.7721	30.1431	7.7838	0.7216	8.5053	0.0000	33,856.7108	33,856.7108	2.3401	0.0000	33,905.8538
2026	4.8265	10.7353	71.9737	0.2751	20.7412	0.3016	21.0429	5.5195	0.2796	5.7991	0.0000	19,293.3621	19,293.3621	0.9010	0.0000	19,312.2825
2027	4.6538	10.4836	69.7549	0.2751	20.7413	0.3027	21.0439	5.5195	0.2806	5.8000	0.0000	19,139.4034	19,139.4034	0.8837	0.0000	19,157.9618
2028	4.9477	12.5825	79.1325	0.2971	20.7288	0.3743	21.1031	5.5159	0.3523	5.8683	0.0000	21,104.1362	21,104.1362	1.5120	0.0000	21,135.8881
2029	36.1098	12.7314	81.5140	0.3122	21.7572	0.3868	22.1440	5.7887	0.3643	6.1529	0.0000	22,058.3051	22,058.3051	1.5443	0.0000	22,090.7361
2030	33.6658	8.7561	52.9084	0.1527	7.4610	0.2562	7.7172	1.9973	0.2417	2.2390	0.0000	12,032.3456	12,032.3456	0.4086	0.0000	12,040.9253
<b>Total</b>	<b>100.5486</b>	<b>107.1050</b>	<b>627.5079</b>	<b>2.2046</b>	<b>149.0907</b>	<b>3.1692</b>	<b>152.2599</b>	<b>39.6430</b>	<b>2.9655</b>	<b>42.6085</b>	<b>0.0000</b>	<b>161,597.1244</b>	<b>161,597.1244</b>	<b>9.9599</b>	<b>0.0000</b>	<b>161,806.2825</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>6.98</b>	<b>40.91</b>	<b>-2.92</b>	<b>0.00</b>	<b>0.05</b>	<b>50.04</b>	<b>2.08</b>	<b>0.03</b>	<b>49.91</b>	<b>6.51</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	Grading	Grading	8/5/2024	4/2/2025	5	173	
2	Building Construction	Building Construction	8/5/2024	4/2/2025	5	173	
3	Building Construction 2	Building Construction	4/3/2025	8/30/2025	5	107	
4	Building Construction 3	Building Construction	9/1/2025	5/30/2027	5	455	
5	Building Construction 4	Building Construction	6/1/2028	5/30/2029	5	260	

6	Architectural Coating	Architectural Coating	4/1/2029	4/22/2030	5	276
7	Building Construction 5	Building Construction	6/1/2029	9/30/2029	5	86
8	Building Construction 6	Building Construction	10/1/2029	4/22/2030	5	146
9	Paving	Paving	1/1/2030	4/22/2030	5	80

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 442,809; Non-Residential Outdoor: 298,289 (Architectural Coating –**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Air Compressors	2	8.00	78	0.48
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Scrapers	0	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Building Construction 2	Cranes	0	7.00	226	0.29
Building Construction 2	Forklifts	0	8.00	89	0.20
Building Construction 2	Generator Sets	0	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	0	8.00	46	0.45
Building Construction 3	Cranes	0	7.00	226	0.29

Building Construction 3	Forklifts	1	8.00	89	0.20
Building Construction 3	Generator Sets	0	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction 3	Welders	0	8.00	46	0.45
Building Construction 4	Cranes	1	7.00	226	0.29
Building Construction 4	Forklifts	1	8.00	89	0.20
Building Construction 4	Generator Sets	0	8.00	84	0.74
Building Construction 4	Rubber Tired Loaders	2	8.00	199	0.36
Building Construction 4	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 4	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction 5	Air Compressors	1	8.00	78	0.48
Building Construction 5	Cranes	2	7.00	226	0.29
Building Construction 5	Forklifts	1	8.00	89	0.20
Building Construction 5	Generator Sets	0	8.00	84	0.74
Building Construction 5	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction 5	Welders	0	8.00	46	0.45
Building Construction 6	Cranes	1	7.00	226	0.29
Building Construction 6	Forklifts	1	8.00	89	0.20
Building Construction 6	Generator Sets	0	8.00	84	0.74
Building Construction 6	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction 6	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Trenchers	2	8.00	80	0.50

**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
Grading	7	486.00	4.00	14,080.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	1,770.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	3	1,770.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	3	1,770.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 4	8	1,770.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	92.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 5	5	465.00	153.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 6	3	465.00	151.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	26.00	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
- Clean Paved Roads

**3.2 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0552	0.0000	0.0552	8.3600e-003	0.0000	8.3600e-003			0.0000			0.0000
Off-Road	1.3476	11.3151	16.3481	0.0287		0.5090	0.5090		0.4813	0.4813		2,762.3415	2,762.3415	0.6929		2,776.8928
<b>Total</b>	<b>1.3476</b>	<b>11.3151</b>	<b>16.3481</b>	<b>0.0287</b>	<b>0.0552</b>	<b>0.5090</b>	<b>0.5643</b>	<b>8.3600e-003</b>	<b>0.4813</b>	<b>0.4897</b>		<b>2,762.3415</b>	<b>2,762.3415</b>	<b>0.6929</b>		<b>2,776.8928</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	1.1438	9.4611	15.4200	0.0592	2.0826	0.3093	2.3920	0.5515	0.2846	0.8361		5,569.0046	5,569.0046	0.0398		5,569.8412
Vendor	0.0242	0.1457	0.3686	8.5000e-004	0.0250	3.6900e-003	0.0287	7.1200e-003	3.4000e-003	0.0105		79.9547	79.9547	5.6000e-004		79.9666
Worker	1.1619	1.5105	15.9759	0.0647	5.4323	0.0420	5.4743	1.4407	0.0389	1.4796		4,376.3336	4,376.3336	0.1929		4,380.3845
<b>Total</b>	<b>2.3299</b>	<b>11.1173</b>	<b>31.7644</b>	<b>0.1248</b>	<b>7.5400</b>	<b>0.3550</b>	<b>7.8950</b>	<b>1.9993</b>	<b>0.3269</b>	<b>2.3262</b>		<b>10,025.2928</b>	<b>10,025.2928</b>	<b>0.2333</b>		<b>10,030.1923</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	3.2600e-003	0.0000	3.2600e-003			0.0000			0.0000
Off-Road	0.3341	1.4479	18.7096	0.0287		0.0446	0.0446		0.0446	0.0446	0.0000	2,762.3415	2,762.3415	0.6929		2,776.8928
<b>Total</b>	<b>0.3341</b>	<b>1.4479</b>	<b>18.7096</b>	<b>0.0287</b>	<b>0.0215</b>	<b>0.0446</b>	<b>0.0661</b>	<b>3.2600e-003</b>	<b>0.0446</b>	<b>0.0478</b>	<b>0.0000</b>	<b>2,762.3415</b>	<b>2,762.3415</b>	<b>0.6929</b>		<b>2,776.8928</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	1.1438	9.4611	15.4200	0.0592	2.0826	0.3093	2.3920	0.5515	0.2846	0.8361		5,569.0046	5,569.0046	0.0398		5,569.8412
Vendor	0.0242	0.1457	0.3686	8.5000e-004	0.0250	3.6900e-003	0.0287	7.1200e-003	3.4000e-003	0.0105		79.9547	79.9547	5.6000e-004		79.9666
Worker	1.1619	1.5105	15.9759	0.0647	5.4323	0.0420	5.4743	1.4407	0.0389	1.4796		4,376.3336	4,376.3336	0.1929		4,380.3845
<b>Total</b>	<b>2.3299</b>	<b>11.1173</b>	<b>31.7644</b>	<b>0.1248</b>	<b>7.5400</b>	<b>0.3550</b>	<b>7.8950</b>	<b>1.9993</b>	<b>0.3269</b>	<b>2.3262</b>		<b>10,025.2928</b>	<b>10,025.2928</b>	<b>0.2333</b>		<b>10,030.1923</b>

### 3.2 Grading - 2025

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0552	0.0000	0.0552	8.3600e-003	0.0000	8.3600e-003			0.0000			0.0000
Off-Road	1.2475	10.1346	16.2978	0.0287		0.4223	0.4223		0.3995	0.3995		2,763.3888	2,763.3888	0.6919		2,777.9195
<b>Total</b>	<b>1.2475</b>	<b>10.1346</b>	<b>16.2978</b>	<b>0.0287</b>	<b>0.0552</b>	<b>0.4223</b>	<b>0.4775</b>	<b>8.3600e-003</b>	<b>0.3995</b>	<b>0.4078</b>		<b>2,763.3888</b>	<b>2,763.3888</b>	<b>0.6919</b>		<b>2,777.9195</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	1.1359	9.4363	15.2835	0.0592	3.1635	0.3110	3.4745	0.8168	0.2861	1.1030		5,569.1883	5,569.1883	0.0400		5,570.0287
Vendor	0.0237	0.1447	0.3620	8.5000e-004	0.0250	3.7100e-003	0.0287	7.1200e-003	3.4100e-003	0.0105		79.9567	79.9567	5.7000e-004		79.9686
Worker	1.1089	1.4361	15.2303	0.0647	5.4323	0.0421	5.4744	1.4407	0.0390	1.4797		4,320.6451	4,320.6451	0.1868		4,324.5686
<b>Total</b>	<b>2.2685</b>	<b>11.0171</b>	<b>30.8758</b>	<b>0.1248</b>	<b>8.6208</b>	<b>0.3568</b>	<b>8.9776</b>	<b>2.2646</b>	<b>0.3286</b>	<b>2.5932</b>		<b>9,969.7902</b>	<b>9,969.7902</b>	<b>0.2274</b>		<b>9,974.5660</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0215	0.0000	0.0215	3.2600e-003	0.0000	3.2600e-003			0.0000			0.0000
Off-Road	0.3341	1.4479	18.7096	0.0287		0.0446	0.0446		0.0446	0.0446	0.0000	2,763.3888	2,763.3888	0.6919		2,777.9195
<b>Total</b>	<b>0.3341</b>	<b>1.4479</b>	<b>18.7096</b>	<b>0.0287</b>	<b>0.0215</b>	<b>0.0446</b>	<b>0.0661</b>	<b>3.2600e-003</b>	<b>0.0446</b>	<b>0.0478</b>	<b>0.0000</b>	<b>2,763.3888</b>	<b>2,763.3888</b>	<b>0.6919</b>		<b>2,777.9195</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	1.1359	9.4363	15.2835	0.0592	3.1635	0.3110	3.4745	0.8168	0.2861	1.1030		5,569.1883	5,569.1883	0.0400		5,570.0287
Vendor	0.0237	0.1447	0.3620	8.5000e-004	0.0250	3.7100e-003	0.0287	7.1200e-003	3.4100e-003	0.0105		79.9567	79.9567	5.7000e-004		79.9686
Worker	1.1089	1.4361	15.2303	0.0647	5.4323	0.0421	5.4744	1.4407	0.0390	1.4797		4,320.6451	4,320.6451	0.1868		4,324.5686
<b>Total</b>	<b>2.2685</b>	<b>11.0171</b>	<b>30.8758</b>	<b>0.1248</b>	<b>8.6208</b>	<b>0.3568</b>	<b>8.9776</b>	<b>2.2646</b>	<b>0.3286</b>	<b>2.5932</b>		<b>9,969.7902</b>	<b>9,969.7902</b>	<b>0.2274</b>		<b>9,974.5660</b>

**3.3 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4018	13.3329	13.6661	0.0249		0.5808	0.5808		0.5381	0.5381		2,368.4381	2,368.4381	0.7201		2,383.5596
<b>Total</b>	<b>1.4018</b>	<b>13.3329</b>	<b>13.6661</b>	<b>0.0249</b>		<b>0.5808</b>	<b>0.5808</b>		<b>0.5381</b>	<b>0.5381</b>		<b>2,368.4381</b>	<b>2,368.4381</b>	<b>0.7201</b>		<b>2,383.5596</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	0.9119	5.5017	13.9128	0.0323	0.9442	0.1394	1.0837	0.2689	0.1283	0.3972		3,018.2903	3,018.2903	0.0213		3,018.7379
Worker	4.2316	5.5010	58.1838	0.2356	19.7844	0.1528	19.9372	5.2469	0.1418	5.3887		15,938.4987	15,938.4987	0.7026		15,953.2523
<b>Total</b>	<b>5.1435</b>	<b>11.0027</b>	<b>72.0966</b>	<b>0.2679</b>	<b>20.7287</b>	<b>0.2922</b>	<b>21.0209</b>	<b>5.5159</b>	<b>0.2700</b>	<b>5.7859</b>		<b>18,956.7890</b>	<b>18,956.7890</b>	<b>0.7239</b>		<b>18,971.9902</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	0.5090	2.5644	15.4728	0.0249		0.0839	0.0839		0.0839	0.0839	0.0000	2,368.4380	2,368.4380	0.7201		2,383.5596
<b>Total</b>	<b>0.5090</b>	<b>2.5644</b>	<b>15.4728</b>	<b>0.0249</b>		<b>0.0839</b>	<b>0.0839</b>		<b>0.0839</b>	<b>0.0839</b>	<b>0.0000</b>	<b>2,368.4380</b>	<b>2,368.4380</b>	<b>0.7201</b>		<b>2,383.5596</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	0.9119	5.5017	13.9128	0.0323	0.9442	0.1394	1.0837	0.2689	0.1283	0.3972		3,018.2903	3,018.2903	0.0213		3,018.7379
Worker	4.2316	5.5010	58.1838	0.2356	19.7844	0.1528	19.9372	5.2469	0.1418	5.3887		15,938.4987	15,938.4987	0.7026		15,953.2523
<b>Total</b>	<b>5.1435</b>	<b>11.0027</b>	<b>72.0966</b>	<b>0.2679</b>	<b>20.7287</b>	<b>0.2922</b>	<b>21.0209</b>	<b>5.5159</b>	<b>0.2700</b>	<b>5.7859</b>		<b>18,956.7890</b>	<b>18,956.7890</b>	<b>0.7239</b>		<b>18,971.9902</b>

**3.3 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3047	12.2573	13.5622	0.0249		0.5046	0.5046		0.4675	0.4675		2,369.4823	2,369.4823	0.7190		2,384.5803
<b>Total</b>	<b>1.3047</b>	<b>12.2573</b>	<b>13.5622</b>	<b>0.0249</b>		<b>0.5046</b>	<b>0.5046</b>		<b>0.4675</b>	<b>0.4675</b>		<b>2,369.4823</b>	<b>2,369.4823</b>	<b>0.7190</b>		<b>2,384.5803</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	0.8947	5.4630	13.6666	0.0323	0.9443	0.1401	1.0844	0.2690	0.1289	0.3979		3,018.3668	3,018.3668	0.0214		3,018.8161
Worker	4.0384	5.2302	55.4682	0.2355	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		15,735.6828	15,735.6828	0.6804		15,749.9720
<b>Total</b>	<b>4.9331</b>	<b>10.6932</b>	<b>69.1348</b>	<b>0.2678</b>	<b>20.7287</b>	<b>0.2934</b>	<b>21.0221</b>	<b>5.5159</b>	<b>0.2711</b>	<b>5.7870</b>		<b>18,754.0496</b>	<b>18,754.0496</b>	<b>0.7018</b>		<b>18,768.7881</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	0.4929	2.5257	15.4608	0.0249		0.0773	0.0773		0.0773	0.0773	0.0000	2,369.4823	2,369.4823	0.7190		2,384.5803
<b>Total</b>	<b>0.4929</b>	<b>2.5257</b>	<b>15.4608</b>	<b>0.0249</b>		<b>0.0773</b>	<b>0.0773</b>		<b>0.0773</b>	<b>0.0773</b>	<b>0.0000</b>	<b>2,369.4823</b>	<b>2,369.4823</b>	<b>0.7190</b>		<b>2,384.5803</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	0.8947	5.4630	13.6666	0.0323	0.9443	0.1401	1.0844	0.2690	0.1289	0.3979		3,018.3668	3,018.3668	0.0214		3,018.8161
Worker	4.0384	5.2302	55.4682	0.2355	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		15,735.6828	15,735.6828	0.6804		15,749.9720
<b>Total</b>	<b>4.9331</b>	<b>10.6932</b>	<b>69.1348</b>	<b>0.2678</b>	<b>20.7287</b>	<b>0.2934</b>	<b>21.0221</b>	<b>5.5159</b>	<b>0.2711</b>	<b>5.7870</b>		<b>18,754.0496</b>	<b>18,754.0496</b>	<b>0.7018</b>		<b>18,768.7881</b>

### 3.4 Building Construction 2 - 2025

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3468	3.5046	5.8529	8.1900e-003		0.1420	0.1420		0.1306	0.1306		792.8966	792.8966	0.2564		798.2818
<b>Total</b>	<b>0.3468</b>	<b>3.5046</b>	<b>5.8529</b>	<b>8.1900e-003</b>		<b>0.1420</b>	<b>0.1420</b>		<b>0.1306</b>	<b>0.1306</b>		<b>792.8966</b>	<b>792.8966</b>	<b>0.2564</b>		<b>798.2818</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	0.9065	5.5353	13.8477	0.0327	0.9568	0.1420	1.0987	0.2725	0.1306	0.4031		3,058.3451	3,058.3451	0.0217		3,058.8004
Worker	4.0384	5.2302	55.4682	0.2355	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		15,735.6828	15,735.6828	0.6804		15,749.9720
<b>Total</b>	<b>4.9449</b>	<b>10.7655</b>	<b>69.3158</b>	<b>0.2682</b>	<b>20.7412</b>	<b>0.2953</b>	<b>21.0364</b>	<b>5.5194</b>	<b>0.2728</b>	<b>5.7923</b>		<b>18,794.0280</b>	<b>18,794.0280</b>	<b>0.7021</b>		<b>18,808.7724</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	0.0997	0.4320	6.1479	8.1900e-003		0.0133	0.0133		0.0133	0.0133	0.0000	792.8966	792.8966	0.2564		798.2818
<b>Total</b>	<b>0.0997</b>	<b>0.4320</b>	<b>6.1479</b>	<b>8.1900e-003</b>		<b>0.0133</b>	<b>0.0133</b>		<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>792.8966</b>	<b>792.8966</b>	<b>0.2564</b>		<b>798.2818</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	0.9065	5.5353	13.8477	0.0327	0.9568	0.1420	1.0987	0.2725	0.1306	0.4031		3,058.3451	3,058.3451	0.0217			3,058.8004
Worker	4.0384	5.2302	55.4682	0.2355	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		15,735.6828	15,735.6828	0.6804			15,749.9720
<b>Total</b>	<b>4.9449</b>	<b>10.7655</b>	<b>69.3158</b>	<b>0.2682</b>	<b>20.7412</b>	<b>0.2953</b>	<b>21.0364</b>	<b>5.5194</b>	<b>0.2728</b>	<b>5.7923</b>		<b>18,794.0280</b>	<b>18,794.0280</b>	<b>0.7021</b>			<b>18,808.7724</b>

### 3.5 Building Construction 3 - 2025

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.3181	3.1550	5.0357	6.9900e-003		0.1385	0.1385		0.1274	0.1274		676.6286	676.6286	0.2188			681.2241
<b>Total</b>	<b>0.3181</b>	<b>3.1550</b>	<b>5.0357</b>	<b>6.9900e-003</b>		<b>0.1385</b>	<b>0.1385</b>		<b>0.1274</b>	<b>0.1274</b>		<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>			<b>681.2241</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	0.9065	5.5353	13.8477	0.0327	0.9568	0.1420	1.0987	0.2725	0.1306	0.4031		3,058.3451	3,058.3451	0.0217			3,058.8004
Worker	4.0384	5.2302	55.4682	0.2355	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		15,735.6828	15,735.6828	0.6804			15,749.9720
<b>Total</b>	<b>4.9449</b>	<b>10.7655</b>	<b>69.3158</b>	<b>0.2682</b>	<b>20.7412</b>	<b>0.2953</b>	<b>21.0364</b>	<b>5.5194</b>	<b>0.2728</b>	<b>5.7923</b>		<b>18,794.0280</b>	<b>18,794.0280</b>	<b>0.7021</b>			<b>18,808.7724</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	0.0853	0.3696	5.2602	6.9900e-003		0.0114	0.0114		0.0114	0.0114	0.0000	676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.0853</b>	<b>0.3696</b>	<b>5.2602</b>	<b>6.9900e-003</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.9065	5.5353	13.8477	0.0327	0.9568	0.1420	1.0987	0.2725	0.1306	0.4031		3,058.3451	3,058.3451	0.0217		3,058.8004
Worker	4.0384	5.2302	55.4682	0.2355	19.7844	0.1533	19.9377	5.2469	0.1422	5.3891		15,735.6828	15,735.6828	0.6804		15,749.9720
<b>Total</b>	<b>4.9449</b>	<b>10.7655</b>	<b>69.3158</b>	<b>0.2682</b>	<b>20.7412</b>	<b>0.2953</b>	<b>21.0364</b>	<b>5.5194</b>	<b>0.2728</b>	<b>5.7923</b>		<b>18,794.0280</b>	<b>18,794.0280</b>	<b>0.7021</b>		<b>18,808.7724</b>

**3.5 Building Construction 3 - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3181	3.1550	5.0357	6.9900e-003		0.1385	0.1385		0.1274	0.1274		676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.3181</b>	<b>3.1550</b>	<b>5.0357</b>	<b>6.9900e-003</b>		<b>0.1385</b>	<b>0.1385</b>		<b>0.1274</b>	<b>0.1274</b>		<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8784	5.3689	13.5961	0.0327	0.9568	0.1361	1.0929	0.2725	0.1252	0.3977		3,057.6488	3,057.6488	0.0210		3,058.0906
Worker	3.8628	4.9967	53.1174	0.2355	19.7844	0.1542	19.9386	5.2469	0.1431	5.3900		15,559.0847	15,559.0847	0.6611		15,572.9679
<b>Total</b>	<b>4.7412</b>	<b>10.3656</b>	<b>66.7135</b>	<b>0.2681</b>	<b>20.7412</b>	<b>0.2903</b>	<b>21.0315</b>	<b>5.5195</b>	<b>0.2683</b>	<b>5.7877</b>		<b>18,616.7335</b>	<b>18,616.7335</b>	<b>0.6821</b>		<b>18,631.0584</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	0.0853	0.3696	5.2602	6.9900e-003		0.0114	0.0114		0.0114	0.0114	0.0000	676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.0853</b>	<b>0.3696</b>	<b>5.2602</b>	<b>6.9900e-003</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8784	5.3689	13.5961	0.0327	0.9568	0.1361	1.0929	0.2725	0.1252	0.3977		3,057.6488	3,057.6488	0.0210		3,058.0906
Worker	3.8628	4.9967	53.1174	0.2355	19.7844	0.1542	19.9386	5.2469	0.1431	5.3900		15,559.0847	15,559.0847	0.6611		15,572.9679
<b>Total</b>	<b>4.7412</b>	<b>10.3656</b>	<b>66.7135</b>	<b>0.2681</b>	<b>20.7412</b>	<b>0.2903</b>	<b>21.0315</b>	<b>5.5195</b>	<b>0.2683</b>	<b>5.7877</b>		<b>18,616.7335</b>	<b>18,616.7335</b>	<b>0.6821</b>		<b>18,631.0584</b>

### 3.5 Building Construction 3 - 2027

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3181	3.1550	5.0357	6.9900e-003		0.1385	0.1385		0.1274	0.1274		676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.3181</b>	<b>3.1550</b>	<b>5.0357</b>	<b>6.9900e-003</b>		<b>0.1385</b>	<b>0.1385</b>		<b>0.1274</b>	<b>0.1274</b>		<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8693	5.3259	13.4627	0.0327	0.9568	0.1364	1.0933	0.2726	0.1255	0.3981		3,057.8083	3,057.8083	0.0211		3,058.2510
Worker	3.6992	4.7880	51.0320	0.2354	19.7844	0.1549	19.9393	5.2469	0.1437	5.3906		15,404.9665	15,404.9665	0.6438		15,418.4867
<b>Total</b>	<b>4.5685</b>	<b>10.1139</b>	<b>64.4947</b>	<b>0.2681</b>	<b>20.7413</b>	<b>0.2913</b>	<b>21.0326</b>	<b>5.5195</b>	<b>0.2692</b>	<b>5.7887</b>		<b>18,462.7748</b>	<b>18,462.7748</b>	<b>0.6649</b>		<b>18,476.7377</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	0.0853	0.3696	5.2602	6.9900e-003		0.0114	0.0114		0.0114	0.0114	0.0000	676.6286	676.6286	0.2188		681.2241
<b>Total</b>	<b>0.0853</b>	<b>0.3696</b>	<b>5.2602</b>	<b>6.9900e-003</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>676.6286</b>	<b>676.6286</b>	<b>0.2188</b>		<b>681.2241</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	0.8693	5.3259	13.4627	0.0327	0.9568	0.1364	1.0933	0.2726	0.1255	0.3981		3,057.8083	3,057.8083	0.0211			3,058.2510
Worker	3.6992	4.7880	51.0320	0.2354	19.7844	0.1549	19.9393	5.2469	0.1437	5.3906		15,404.9665	15,404.9665	0.6438			15,418.4867
<b>Total</b>	<b>4.5685</b>	<b>10.1139</b>	<b>64.4947</b>	<b>0.2681</b>	<b>20.7413</b>	<b>0.2913</b>	<b>21.0326</b>	<b>5.5195</b>	<b>0.2692</b>	<b>5.7887</b>		<b>18,462.7748</b>	<b>18,462.7748</b>	<b>0.6649</b>			<b>18,476.7377</b>

**3.6 Building Construction 4 - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3695	12.0213	13.0099	0.0295		0.4644	0.4644		0.4305	0.4305		2,814.1711	2,814.1711	0.8628			2,832.2893
<b>Total</b>	<b>1.3695</b>	<b>12.0213</b>	<b>13.0099</b>	<b>0.0295</b>		<b>0.4644</b>	<b>0.4644</b>		<b>0.4305</b>	<b>0.4305</b>		<b>2,814.1711</b>	<b>2,814.1711</b>	<b>0.8628</b>			<b>2,832.2893</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	0.8471	5.2060	13.1673	0.0322	0.9444	0.1338	1.0782	0.2690	0.1231	0.3921		3,017.8016	3,017.8016	0.0207			3,018.2366
Worker	3.5500	4.6008	49.2195	0.2354	19.7844	0.1555	19.9399	5.2469	0.1443	5.3912		15,272.1635	15,272.1635	0.6285			15,285.3622
<b>Total</b>	<b>4.3971</b>	<b>9.8068</b>	<b>62.3868</b>	<b>0.2676</b>	<b>20.7288</b>	<b>0.2893</b>	<b>21.0181</b>	<b>5.5159</b>	<b>0.2673</b>	<b>5.7833</b>		<b>18,289.9651</b>	<b>18,289.9651</b>	<b>0.6492</b>			<b>18,303.5988</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	0.5506	2.7757	16.7458	0.0295		0.0850	0.0850		0.0850	0.0850	0.0000	2,814.1711	2,814.1711	0.8628		2,832.2893
<b>Total</b>	<b>0.5506</b>	<b>2.7757</b>	<b>16.7458</b>	<b>0.0295</b>		<b>0.0850</b>	<b>0.0850</b>		<b>0.0850</b>	<b>0.0850</b>	<b>0.0000</b>	<b>2,814.1711</b>	<b>2,814.1711</b>	<b>0.8628</b>		<b>2,832.2893</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	0.8471	5.2060	13.1673	0.0322	0.9444	0.1338	1.0782	0.2690	0.1231	0.3921		3,017.8016	3,017.8016	0.0207		3,018.2366
Worker	3.5500	4.6008	49.2195	0.2354	19.7844	0.1555	19.9399	5.2469	0.1443	5.3912		15,272.1635	15,272.1635	0.6285		15,285.3622
<b>Total</b>	<b>4.3971</b>	<b>9.8068</b>	<b>62.3868</b>	<b>0.2676</b>	<b>20.7288</b>	<b>0.2893</b>	<b>21.0181</b>	<b>5.5159</b>	<b>0.2673</b>	<b>5.7833</b>		<b>18,289.9651</b>	<b>18,289.9651</b>	<b>0.6492</b>		<b>18,303.5988</b>

### 3.6 Building Construction 4 - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3695	12.0213	13.0099	0.0295		0.4644	0.4644		0.4305	0.4305		2,814.1711	2,814.1711	0.8628		2,832.2893
<b>Total</b>	<b>1.3695</b>	<b>12.0213</b>	<b>13.0099</b>	<b>0.0295</b>		<b>0.4644</b>	<b>0.4644</b>		<b>0.4305</b>	<b>0.4305</b>		<b>2,814.1711</b>	<b>2,814.1711</b>	<b>0.8628</b>		<b>2,832.2893</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	0.8378	5.1807	13.0342	0.0322	0.9444	0.1340	1.0784	0.2690	0.1232	0.3923		3,017.8498	3,017.8498	0.0207			3,018.2853
Worker	3.4008	4.4168	47.4361	0.2353	19.7844	0.1558	19.9402	5.2469	0.1446	5.3915		15,157.0140	15,157.0140	0.6136			15,169.8991
<b>Total</b>	<b>4.2387</b>	<b>9.5974</b>	<b>60.4703</b>	<b>0.2676</b>	<b>20.7289</b>	<b>0.2898</b>	<b>21.0186</b>	<b>5.5159</b>	<b>0.2678</b>	<b>5.7837</b>		<b>18,174.8638</b>	<b>18,174.8638</b>	<b>0.6343</b>			<b>18,188.1844</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	0.5506	2.7757	16.7458	0.0295		0.0850	0.0850		0.0850	0.0850	0.0000	2,814.1711	2,814.1711	0.8628			2,832.2893
<b>Total</b>	<b>0.5506</b>	<b>2.7757</b>	<b>16.7458</b>	<b>0.0295</b>		<b>0.0850</b>	<b>0.0850</b>		<b>0.0850</b>	<b>0.0850</b>	<b>0.0000</b>	<b>2,814.1711</b>	<b>2,814.1711</b>	<b>0.8628</b>			<b>2,832.2893</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	0.8378	5.1807	13.0342	0.0322	0.9444	0.1340	1.0784	0.2690	0.1232	0.3923		3,017.8498	3,017.8498	0.0207			3,018.2853
Worker	3.4008	4.4168	47.4361	0.2353	19.7844	0.1558	19.9402	5.2469	0.1446	5.3915		15,157.0140	15,157.0140	0.6136			15,169.8991
<b>Total</b>	<b>4.2387</b>	<b>9.5974</b>	<b>60.4703</b>	<b>0.2676</b>	<b>20.7289</b>	<b>0.2898</b>	<b>21.0186</b>	<b>5.5159</b>	<b>0.2678</b>	<b>5.7837</b>		<b>18,174.8638</b>	<b>18,174.8638</b>	<b>0.6343</b>			<b>18,188.1844</b>

### 3.7 Architectural Coating - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.1140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>31.2849</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.1768	0.2296	2.4656	0.0122	1.0283	8.1000e-003	1.0364	0.2727	7.5100e-003	0.2802		787.8222	787.8222	0.0319		788.4919
<b>Total</b>	<b>0.1768</b>	<b>0.2296</b>	<b>2.4656</b>	<b>0.0122</b>	<b>1.0283</b>	<b>8.1000e-003</b>	<b>1.0364</b>	<b>0.2727</b>	<b>7.5100e-003</b>	<b>0.2802</b>		<b>787.8222</b>	<b>787.8222</b>	<b>0.0319</b>		<b>788.4919</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	31.1140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>31.1437</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.1768	0.2296	2.4656	0.0122	1.0283	8.1000e-003	1.0364	0.2727	7.5100e-003	0.2802		787.8222	787.8222	0.0319		788.4919
<b>Total</b>	<b>0.1768</b>	<b>0.2296</b>	<b>2.4656</b>	<b>0.0122</b>	<b>1.0283</b>	<b>8.1000e-003</b>	<b>1.0364</b>	<b>0.2727</b>	<b>7.5100e-003</b>	<b>0.2802</b>		<b>787.8222</b>	<b>787.8222</b>	<b>0.0319</b>		<b>788.4919</b>

### 3.7 Architectural Coating - 2030

#### 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	31.1140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.6873
<b>Total</b>	<b>31.2448</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.6873</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	0.1694	0.2206	2.3833	0.0122	1.0283	8.1000e-003	1.0364	0.2727	7.5200e-003	0.2802		782.6720	782.6720	0.0312		783.3264
<b>Total</b>	<b>0.1694</b>	<b>0.2206</b>	<b>2.3833</b>	<b>0.0122</b>	<b>1.0283</b>	<b>8.1000e-003</b>	<b>1.0364</b>	<b>0.2727</b>	<b>7.5200e-003</b>	<b>0.2802</b>		<b>782.6720</b>	<b>782.6720</b>	<b>0.0312</b>		<b>783.3264</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	31.1140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.6873
<b>Total</b>	<b>31.1437</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.6873</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	0.1694	0.2206	2.3833	0.0122	1.0283	8.1000e-003	1.0364	0.2727	7.5200e-003	0.2802		782.6720	782.6720	0.0312		783.3264
<b>Total</b>	<b>0.1694</b>	<b>0.2206</b>	<b>2.3833</b>	<b>0.0122</b>	<b>1.0283</b>	<b>8.1000e-003</b>	<b>1.0364</b>	<b>0.2727</b>	<b>7.5200e-003</b>	<b>0.2802</b>		<b>782.6720</b>	<b>782.6720</b>	<b>0.0312</b>		<b>783.3264</b>

### 3.8 Building Construction 5 - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9659	8.9380	8.4699	0.0181		0.3904	0.3904		0.3647	0.3647		1,744.3720	1,744.3720	0.4633		1,754.1006
<b>Total</b>	<b>0.9659</b>	<b>8.9380</b>	<b>8.4699</b>	<b>0.0181</b>		<b>0.3904</b>	<b>0.3904</b>		<b>0.3647</b>	<b>0.3647</b>		<b>1,744.3720</b>	<b>1,744.3720</b>	<b>0.4633</b>		<b>1,754.1006</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	0.8489	5.2493	13.2068	0.0327	0.9569	0.1357	1.0927	0.2726	0.1249	0.3975		3,057.8214	3,057.8214	0.0210		3,058.2626
Worker	0.8934	1.1603	12.4620	0.0618	5.1976	0.0409	5.2385	1.3784	0.0380	1.4164		3,981.9274	3,981.9274	0.1612		3,985.3125
<b>Total</b>	<b>1.7424</b>	<b>6.4096</b>	<b>25.6688</b>	<b>0.0945</b>	<b>6.1545</b>	<b>0.1767</b>	<b>6.3312</b>	<b>1.6510</b>	<b>0.1629</b>	<b>1.8139</b>		<b>7,039.7488</b>	<b>7,039.7488</b>	<b>0.1822</b>		<b>7,043.5751</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	0.2131	0.9233	10.1044	0.0181		0.0284	0.0284		0.0284	0.0284	0.0000	1,744.3720	1,744.3720	0.4633		1,754.1006
<b>Total</b>	<b>0.2131</b>	<b>0.9233</b>	<b>10.1044</b>	<b>0.0181</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>	<b>0.0000</b>	<b>1,744.3720</b>	<b>1,744.3720</b>	<b>0.4633</b>		<b>1,754.1006</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	0.8489	5.2493	13.2068	0.0327	0.9569	0.1357	1.0927	0.2726	0.1249	0.3975		3,057.8214	3,057.8214	0.0210		3,058.2626
Worker	0.8934	1.1603	12.4620	0.0618	5.1976	0.0409	5.2385	1.3784	0.0380	1.4164		3,981.9274	3,981.9274	0.1612		3,985.3125
<b>Total</b>	<b>1.7424</b>	<b>6.4096</b>	<b>25.6688</b>	<b>0.0945</b>	<b>6.1545</b>	<b>0.1767</b>	<b>6.3312</b>	<b>1.6510</b>	<b>0.1629</b>	<b>1.8139</b>		<b>7,039.7488</b>	<b>7,039.7488</b>	<b>0.1822</b>		<b>7,043.5751</b>

### 3.9 Building Construction 6 - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.4703	4.6987	4.5712	9.2000e-003		0.2064	0.2064		0.1899	0.1899		890.7188	890.7188	0.2881			896.7684
<b>Total</b>	<b>0.4703</b>	<b>4.6987</b>	<b>4.5712</b>	<b>9.2000e-003</b>		<b>0.2064</b>	<b>0.2064</b>		<b>0.1899</b>	<b>0.1899</b>		<b>890.7188</b>	<b>890.7188</b>	<b>0.2881</b>			<b>896.7684</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	0.8378	5.1807	13.0342	0.0322	0.9444	0.1340	1.0784	0.2690	0.1232	0.3923		3,017.8498	3,017.8498	0.0207			3,018.2853
Worker	0.8934	1.1603	12.4620	0.0618	5.1976	0.0409	5.2385	1.3784	0.0380	1.4164		3,981.9274	3,981.9274	0.1612			3,985.3125
<b>Total</b>	<b>1.7313</b>	<b>6.3410</b>	<b>25.4962</b>	<b>0.0941</b>	<b>6.1420</b>	<b>0.1749</b>	<b>6.3169</b>	<b>1.6475</b>	<b>0.1612</b>	<b>1.8087</b>		<b>6,999.7772</b>	<b>6,999.7772</b>	<b>0.1819</b>			<b>7,003.5978</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	0.1128	0.4886	5.4360	9.2000e-003		0.0150	0.0150		0.0150	0.0150	0.0000	890.7188	890.7188	0.2881			896.7684
<b>Total</b>	<b>0.1128</b>	<b>0.4886</b>	<b>5.4360</b>	<b>9.2000e-003</b>		<b>0.0150</b>	<b>0.0150</b>		<b>0.0150</b>	<b>0.0150</b>	<b>0.0000</b>	<b>890.7188</b>	<b>890.7188</b>	<b>0.2881</b>			<b>896.7684</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	0.8378	5.1807	13.0342	0.0322	0.9444	0.1340	1.0784	0.2690	0.1232	0.3923		3,017.8498	3,017.8498	0.0207		3,018.2853
Worker	0.8934	1.1603	12.4620	0.0618	5.1976	0.0409	5.2385	1.3784	0.0380	1.4164		3,981.9274	3,981.9274	0.1612		3,985.3125
<b>Total</b>	<b>1.7313</b>	<b>6.3410</b>	<b>25.4962</b>	<b>0.0941</b>	<b>6.1420</b>	<b>0.1749</b>	<b>6.3169</b>	<b>1.6475</b>	<b>0.1612</b>	<b>1.8087</b>		<b>6,999.7772</b>	<b>6,999.7772</b>	<b>0.1819</b>		<b>7,003.5978</b>

### 3.9 Building Construction 6 - 2030

#### 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	0.4661	2.1442	4.4049	0.0113		0.0475	0.0475		0.0475	0.0475		1,067.9716	1,067.9716	0.0414		1,068.8403
<b>Total</b>	<b>0.4661</b>	<b>2.1442</b>	<b>4.4049</b>	<b>0.0113</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>		<b>1,067.9716</b>	<b>1,067.9716</b>	<b>0.0414</b>		<b>1,068.8403</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	0.8289	5.1584	12.9441	0.0322	0.9444	0.1342	1.0786	0.2690	0.1234	0.3925		3,017.8385	3,017.8385	0.0208		3,018.2745
Worker	0.8561	1.1148	12.0461	0.0618	5.1976	0.0410	5.2386	1.3784	0.0380	1.4164		3,955.8964	3,955.8964	0.1575		3,959.2042
<b>Total</b>	<b>1.6850</b>	<b>6.2731</b>	<b>24.9902</b>	<b>0.0940</b>	<b>6.1420</b>	<b>0.1751</b>	<b>6.3172</b>	<b>1.6475</b>	<b>0.1614</b>	<b>1.8089</b>		<b>6,973.7349</b>	<b>6,973.7349</b>	<b>0.1783</b>		<b>6,977.4787</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	0.1128	0.4886	5.4360	0.0113		0.0150	0.0150		0.0150	0.0150	0.0000	1,067.9716	1,067.9716	0.0414			1,068.8403
<b>Total</b>	<b>0.1128</b>	<b>0.4886</b>	<b>5.4360</b>	<b>0.0113</b>		<b>0.0150</b>	<b>0.0150</b>		<b>0.0150</b>	<b>0.0150</b>	<b>0.0000</b>	<b>1,067.9716</b>	<b>1,067.9716</b>	<b>0.0414</b>			<b>1,068.8403</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	0.8289	5.1584	12.9441	0.0322	0.9444	0.1342	1.0786	0.2690	0.1234	0.3925		3,017.8385	3,017.8385	0.0208			3,018.2745
Worker	0.8561	1.1148	12.0461	0.0618	5.1976	0.0410	5.2386	1.3784	0.0380	1.4164		3,955.8964	3,955.8964	0.1575			3,959.2042
<b>Total</b>	<b>1.6850</b>	<b>6.2731</b>	<b>24.9902</b>	<b>0.0940</b>	<b>6.1420</b>	<b>0.1751</b>	<b>6.3172</b>	<b>1.6475</b>	<b>0.1614</b>	<b>1.8089</b>		<b>6,973.7349</b>	<b>6,973.7349</b>	<b>0.1783</b>			<b>6,977.4787</b>

**3.10 Paving - 2030**

**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	1.5520	9.2333	17.3052	0.0287		0.3507	0.3507		0.3507	0.3507		2,705.3292	2,705.3292	0.1376			2,708.2177
Paving	0.1680					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.7201</b>	<b>9.2333</b>	<b>17.3052</b>	<b>0.0287</b>		<b>0.3507</b>	<b>0.3507</b>		<b>0.3507</b>	<b>0.3507</b>		<b>2,705.3292</b>	<b>2,705.3292</b>	<b>0.1376</b>			<b>2,708.2177</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	0.0479	0.0623	0.6736	3.4600e-003	0.2906	2.2900e-003	0.2929	0.0771	2.1200e-003	0.0792		221.1899	221.1899	8.8100e-003		221.3749
<b>Total</b>	<b>0.0479</b>	<b>0.0623</b>	<b>0.6736</b>	<b>3.4600e-003</b>	<b>0.2906</b>	<b>2.2900e-003</b>	<b>0.2929</b>	<b>0.0771</b>	<b>2.1200e-003</b>	<b>0.0792</b>		<b>221.1899</b>	<b>221.1899</b>	<b>8.8100e-003</b>		<b>221.3749</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	0.3391	1.5828	17.5929	0.0287		0.0517	0.0517		0.0517	0.0517	0.0000	2,705.3292	2,705.3292	0.1376		2,708.2177
Paving	0.1680					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5071</b>	<b>1.5828</b>	<b>17.5929</b>	<b>0.0287</b>		<b>0.0517</b>	<b>0.0517</b>		<b>0.0517</b>	<b>0.0517</b>	<b>0.0000</b>	<b>2,705.3292</b>	<b>2,705.3292</b>	<b>0.1376</b>		<b>2,708.2177</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	0.0479	0.0623	0.6736	3.4600e-003	0.2906	2.2900e-003	0.2929	0.0771	2.1200e-003	0.0792		221.1899	221.1899	8.8100e-003		221.3749
<b>Total</b>	<b>0.0479</b>	<b>0.0623</b>	<b>0.6736</b>	<b>3.4600e-003</b>	<b>0.2906</b>	<b>2.2900e-003</b>	<b>0.2929</b>	<b>0.0771</b>	<b>2.1200e-003</b>	<b>0.0792</b>		<b>221.1899</b>	<b>221.1899</b>	<b>8.8100e-003</b>		<b>221.3749</b>

## **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**  
*Phase 6 Construction Emissions*

## Harbor UCLA Master Plan- Phase 6 South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	250.00	1000sqft	5.74	250,000.00	0
Medical Office Building	97.00	1000sqft	2.23	97,000.00	0
Other Asphalt Surfaces	75.00	1000sqft	1.72	75,000.00	0
Other Asphalt Surfaces	13.50	1000sqft	0.31	13,500.00	0
Unenclosed Parking with Elevator	1,000.00	Space	9.00	400,000.00	0
City Park	22.00	Acre	22.00	958,320.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information



tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	93.00
tblConstructionPhase	NumDays	740.00	374.00
tblConstructionPhase	NumDays	50.00	85.00
tblConstructionPhase	NumDays	75.00	675.00
tblConstructionPhase	NumDays	55.00	93.00
tblConstructionPhase	PhaseEndDate	9/16/2024	5/8/2024
tblConstructionPhase	PhaseEndDate	3/23/2026	5/8/2024
tblConstructionPhase	PhaseEndDate	9/16/2024	5/8/2024
tblConstructionPhase	PhaseStartDate	5/9/2024	1/1/2024
tblConstructionPhase	PhaseStartDate	10/16/2024	12/2/2022
tblConstructionPhase	PhaseStartDate	5/9/2024	1/1/2024
tblGrading	MaterialExported	0.00	31,953.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblTripsAndVMT	HaulingTripNumber	1,453.00	10,229.00
tblTripsAndVMT	HaulingTripNumber	3,159.00	5,325.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	28.00	466.00
tblTripsAndVMT	WorkerTripNumber	15.00	72.00

tbITripsAndVMT	WorkerTripNumber	652.00	2,688.00
tbITripsAndVMT	WorkerTripNumber	13.00	540.00
tbITripsAndVMT	WorkerTripNumber	130.00	52.00

## 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					
2021	7.2774	62.9537	81.6593	0.2167	13.5370	2.4710	16.0081	3.1383	2.3014	5.4397	0.0000	18,987.9946	18,987.9946	1.8794	0.0000	19,027.4621
2022	11.9473	56.9392	161.5838	0.4996	33.3905	2.2284	35.2949	8.8007	2.0745	10.5770	0.0000	37,489.7991	37,489.7991	2.4261	0.0000	37,540.7467
2023	11.1902	43.4083	154.1567	0.4992	33.3228	1.7048	35.0276	8.7841	1.5897	10.3738	0.0000	37,047.0368	37,047.0368	2.3700	0.0000	37,096.8066
2024	63.2563	53.1047	183.5217	0.6049	40.0094	2.1876	42.1970	10.5560	2.0365	12.5925	0.0000	44,389.8681	44,389.8681	3.0989	0.0000	44,454.9455
<b>Total</b>	<b>93.6711</b>	<b>216.4058</b>	<b>580.9215</b>	<b>1.8204</b>	<b>120.2597</b>	<b>8.5918</b>	<b>128.5275</b>	<b>31.2791</b>	<b>8.0020</b>	<b>38.9830</b>	<b>0.0000</b>	<b>137,914.6986</b>	<b>137,914.6986</b>	<b>9.7744</b>	<b>0.0000</b>	<b>138,119.9609</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					
2021	4.5043	31.1783	78.4810	0.2167	11.2809	0.9333	12.2143	2.7967	0.8931	3.6898	0.0000	18,987.9946	18,987.9946	1.8794	0.0000	19,027.4621
2022	9.7265	28.7876	164.3720	0.4996	33.0670	0.8832	33.7099	8.7657	0.8433	9.3696	0.0000	37,489.7991	37,489.7991	2.4261	0.0000	37,540.7467
2023	9.1923	22.2725	157.1222	0.4992	32.9994	0.6307	33.6300	8.7491	0.5920	9.3411	0.0000	37,047.0368	37,047.0368	2.3700	0.0000	37,096.8066
2024	60.5077	24.4250	187.4018	0.6049	39.6859	0.7073	40.3932	10.5211	0.6648	11.1859	0.0000	44,389.8681	44,389.8681	3.0989	0.0000	44,454.9455
<b>Total</b>	<b>83.9309</b>	<b>106.6634</b>	<b>587.3770</b>	<b>1.8204</b>	<b>117.0332</b>	<b>3.1545</b>	<b>119.9474</b>	<b>30.8327</b>	<b>2.9932</b>	<b>33.5864</b>	<b>0.0000</b>	<b>137,914.6985</b>	<b>137,914.6985</b>	<b>9.7744</b>	<b>0.0000</b>	<b>138,119.9609</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	N20	CO2e
Percent Reduction	10.40	50.71	-1.11	0.00	2.68	63.28	6.68	1.43	62.59	13.84	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/17/2021	3/15/2022	5	85	
2	Grading	Grading	3/16/2022	10/15/2024	5	675	
3	Building Construction	Building Construction	12/2/2022	5/8/2024	5	374	
4	Paving	Paving	1/1/2024	5/8/2024	5	93	
5	Architectural Coating	Architectural Coating	1/1/2024	5/8/2024	5	93	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 337.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 231,998; Non-Residential Outdoor: 169,333 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40

Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Scrapers	0	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	11	466.00	4.00	10,229.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	72.00	2.00	5,325.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	2,688.00	260.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	540.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	52.00	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

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					3.6985	0.0000	3.6985	0.5600	0.0000	0.5600			0.0000			0.0000
Off-Road	4.1438	40.4558	40.2995	0.0616		1.9641	1.9641		1.8347	1.8347		5,943.2630	5,943.2630	1.6076		5,977.0235
<b>Total</b>	<b>4.1438</b>	<b>40.4558</b>	<b>40.2995</b>	<b>0.0616</b>	<b>3.6985</b>	<b>1.9641</b>	<b>5.6626</b>	<b>0.5600</b>	<b>1.8347</b>	<b>2.3946</b>		<b>5,943.2630</b>	<b>5,943.2630</b>	<b>1.6076</b>		<b>5,977.0235</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	1.8246	20.7181	21.0033	0.0882	4.6047	0.4633	5.0681	1.1898	0.4263	1.6161		8,298.1143	8,298.1143	0.0646		8,299.4705
Vendor	0.0250	0.1987	0.3234	8.6000e-004	0.0250	3.7500e-003	0.0288	7.1200e-003	3.4500e-003	0.0106		80.8838	80.8838	5.8000e-004		80.8960
Worker	1.2840	1.5812	20.0332	0.0659	5.2088	0.0399	5.2487	1.3814	0.0370	1.4184		4,665.7335	4,665.7335	0.2066		4,670.0721
<b>Total</b>	<b>3.1336</b>	<b>22.4979</b>	<b>41.3599</b>	<b>0.1550</b>	<b>9.8385</b>	<b>0.5070</b>	<b>10.3455</b>	<b>2.5783</b>	<b>0.4667</b>	<b>3.0451</b>		<b>13,044.7317</b>	<b>13,044.7317</b>	<b>0.2718</b>		<b>13,050.4386</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					1.4424	0.0000	1.4424	0.2184	0.0000	0.2184			0.0000			0.0000
Off-Road	1.3707	8.6804	37.1211	0.0616		0.4264	0.4264		0.4264	0.4264	0.0000	5,943.2630	5,943.2630	1.6076		5,977.0235
<b>Total</b>	<b>1.3707</b>	<b>8.6804</b>	<b>37.1211</b>	<b>0.0616</b>	<b>1.4424</b>	<b>0.4264</b>	<b>1.8688</b>	<b>0.2184</b>	<b>0.4264</b>	<b>0.6448</b>	<b>0.0000</b>	<b>5,943.2630</b>	<b>5,943.2630</b>	<b>1.6076</b>		<b>5,977.0235</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	1.8246	20.7181	21.0033	0.0882	4.6047	0.4633	5.0681	1.1898	0.4263	1.6161		8,298.1143	8,298.1143	0.0646		8,299.4705
Vendor	0.0250	0.1987	0.3234	8.6000e-004	0.0250	3.7500e-003	0.0288	7.1200e-003	3.4500e-003	0.0106		80.8838	80.8838	5.8000e-004		80.8960
Worker	1.2840	1.5812	20.0332	0.0659	5.2088	0.0399	5.2487	1.3814	0.0370	1.4184		4,665.7335	4,665.7335	0.2066		4,670.0721
<b>Total</b>	<b>3.1336</b>	<b>22.4979</b>	<b>41.3599</b>	<b>0.1550</b>	<b>9.8385</b>	<b>0.5070</b>	<b>10.3455</b>	<b>2.5783</b>	<b>0.4667</b>	<b>3.0451</b>		<b>13,044.7317</b>	<b>13,044.7317</b>	<b>0.2718</b>		<b>13,050.4386</b>

### 3.2 Demolition - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6985	0.0000	3.6985	0.5600	0.0000	0.5600			0.0000			0.0000
Off-Road	3.8261	36.3585	39.5704	0.0617		1.7257	1.7257		1.6117	1.6117		5,945.3308	5,945.3308	1.6041		5,979.0177
<b>Total</b>	<b>3.8261</b>	<b>36.3585</b>	<b>39.5704</b>	<b>0.0617</b>	<b>3.6985</b>	<b>1.7257</b>	<b>5.4242</b>	<b>0.5600</b>	<b>1.6117</b>	<b>2.1717</b>		<b>5,945.3308</b>	<b>5,945.3308</b>	<b>1.6041</b>		<b>5,979.0177</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	1.8287	18.9168	20.8549	0.0882	3.1075	0.4592	3.5666	0.8223	0.4225	1.2448		8,291.2699	8,291.2699	0.0660		8,292.6554
Vendor	0.0245	0.1803	0.3159	8.6000e-004	0.0250	3.7100e-003	0.0287	7.1200e-003	3.4100e-003	0.0105		80.8109	80.8109	5.9000e-004		80.8234
Worker	1.2161	1.4836	18.8654	0.0659	5.2088	0.0398	5.2486	1.3814	0.0370	1.4183		4,588.8141	4,588.8141	0.1978		4,592.9686
<b>Total</b>	<b>3.0692</b>	<b>20.5807</b>	<b>40.0362</b>	<b>0.1549</b>	<b>8.3413</b>	<b>0.5027</b>	<b>8.8440</b>	<b>2.2109</b>	<b>0.4628</b>	<b>2.6737</b>		<b>12,960.8949</b>	<b>12,960.8949</b>	<b>0.2644</b>		<b>12,966.4473</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					1.4424	0.0000	1.4424	0.2184	0.0000	0.2184			0.0000			0.0000
Off-Road	1.3165	8.2069	37.1024	0.0617		0.3805	0.3805		0.3805	0.3805	0.0000	5,945.3308	5,945.3308	1.6041		5,979.0177
<b>Total</b>	<b>1.3165</b>	<b>8.2069</b>	<b>37.1024</b>	<b>0.0617</b>	<b>1.4424</b>	<b>0.3805</b>	<b>1.8229</b>	<b>0.2184</b>	<b>0.3805</b>	<b>0.5989</b>	<b>0.0000</b>	<b>5,945.3308</b>	<b>5,945.3308</b>	<b>1.6041</b>		<b>5,979.0177</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	1.8287	18.9168	20.8549	0.0882	3.1075	0.4592	3.5666	0.8223	0.4225	1.2448		8,291.2699	8,291.2699	0.0660		8,292.6554
Vendor	0.0245	0.1803	0.3159	8.6000e-004	0.0250	3.7100e-003	0.0287	7.1200e-003	3.4100e-003	0.0105		80.8109	80.8109	5.9000e-004		80.8234
Worker	1.2161	1.4836	18.8654	0.0659	5.2088	0.0398	5.2486	1.3814	0.0370	1.4183		4,588.8141	4,588.8141	0.1978		4,592.9686
<b>Total</b>	<b>3.0692</b>	<b>20.5807</b>	<b>40.0362</b>	<b>0.1549</b>	<b>8.3413</b>	<b>0.5027</b>	<b>8.8440</b>	<b>2.2109</b>	<b>0.4628</b>	<b>2.6737</b>		<b>12,960.8949</b>	<b>12,960.8949</b>	<b>0.2644</b>		<b>12,966.4473</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.6065	15.0603	15.0278	0.0256		0.7673	0.7673		0.7146	0.7146		2,474.8538	2,474.8538	0.7035		2,489.6269
<b>Total</b>	<b>1.6065</b>	<b>15.0603</b>	<b>15.0278</b>	<b>0.0256</b>	<b>0.5303</b>	<b>0.7673</b>	<b>1.2975</b>	<b>0.0573</b>	<b>0.7146</b>	<b>0.7719</b>		<b>2,474.8538</b>	<b>2,474.8538</b>	<b>0.7035</b>		<b>2,489.6269</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	0.1199	1.2401	1.3671	5.7800e-003	0.3717	0.0301	0.4018	0.0951	0.0277	0.1228		543.5289	543.5289	4.3300e-003		543.6197
Vendor	0.0122	0.0902	0.1580	4.3000e-004	0.0125	1.8600e-003	0.0144	3.5600e-003	1.7100e-003	5.2700e-003		40.4055	40.4055	3.0000e-004		40.4117
Worker	0.1879	0.2292	2.9148	0.0102	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		709.0013	709.0013	0.0306		709.6432
<b>Total</b>	<b>0.3200</b>	<b>1.5595</b>	<b>4.4399</b>	<b>0.0164</b>	<b>1.1890</b>	<b>0.0381</b>	<b>1.2271</b>	<b>0.3121</b>	<b>0.0351</b>	<b>0.3472</b>		<b>1,292.9357</b>	<b>1,292.9357</b>	<b>0.0352</b>		<b>1,293.6746</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.3049	1.3211	16.9046	0.0256		0.0407	0.0407		0.0407	0.0407	0.0000	2,474.8538	2,474.8538	0.7035		2,489.6269
<b>Total</b>	<b>0.3049</b>	<b>1.3211</b>	<b>16.9046</b>	<b>0.0256</b>	<b>0.2068</b>	<b>0.0407</b>	<b>0.2475</b>	<b>0.0223</b>	<b>0.0407</b>	<b>0.0630</b>	<b>0.0000</b>	<b>2,474.8538</b>	<b>2,474.8538</b>	<b>0.7035</b>		<b>2,489.6269</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	0.1199	1.2401	1.3671	5.7800e-003	0.3717	0.0301	0.4018	0.0951	0.0277	0.1228		543.5289	543.5289	4.3300e-003		543.6197
Vendor	0.0122	0.0902	0.1580	4.3000e-004	0.0125	1.8600e-003	0.0144	3.5600e-003	1.7100e-003	5.2700e-003		40.4055	40.4055	3.0000e-004		40.4117
Worker	0.1879	0.2292	2.9148	0.0102	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		709.0013	709.0013	0.0306		709.6432
<b>Total</b>	<b>0.3200</b>	<b>1.5595</b>	<b>4.4399</b>	<b>0.0164</b>	<b>1.1890</b>	<b>0.0381</b>	<b>1.2271</b>	<b>0.3121</b>	<b>0.0351</b>	<b>0.3472</b>		<b>1,292.9357</b>	<b>1,292.9357</b>	<b>0.0352</b>		<b>1,293.6746</b>

### 3.3 Grading - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.4653	13.4107	14.9298	0.0257		0.6548	0.6548		0.6100	0.6100		2,475.6351	2,475.6351	0.7018		2,490.3719
<b>Total</b>	<b>1.4653</b>	<b>13.4107</b>	<b>14.9298</b>	<b>0.0257</b>	<b>0.5303</b>	<b>0.6548</b>	<b>1.1850</b>	<b>0.0573</b>	<b>0.6100</b>	<b>0.6672</b>		<b>2,475.6351</b>	<b>2,475.6351</b>	<b>0.7018</b>		<b>2,490.3719</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	0.1061	0.8866	1.2890	5.7400e-003	0.3040	0.0299	0.3339	0.0785	0.0275	0.1061		539.7094	539.7094	3.7300e-003		539.7878
Vendor	0.0113	0.0719	0.1515	4.3000e-004	0.0125	1.8300e-003	0.0143	3.5600e-003	1.6900e-003	5.2500e-003		40.2119	40.2119	2.7000e-004		40.2176
Worker	0.1780	0.2158	2.7502	0.0102	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		698.1687	698.1687	0.0294		698.7855
<b>Total</b>	<b>0.2954</b>	<b>1.1744</b>	<b>4.1907</b>	<b>0.0164</b>	<b>1.1213</b>	<b>0.0379</b>	<b>1.1592</b>	<b>0.2955</b>	<b>0.0349</b>	<b>0.3305</b>		<b>1,278.0901</b>	<b>1,278.0901</b>	<b>0.0334</b>		<b>1,278.7908</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.3049	1.3211	16.9046	0.0257		0.0407	0.0407		0.0407	0.0407		2,475.6351	2,475.6351	0.7018		2,490.3719
<b>Total</b>	<b>0.3049</b>	<b>1.3211</b>	<b>16.9046</b>	<b>0.0257</b>	<b>0.2068</b>	<b>0.0407</b>	<b>0.2475</b>	<b>0.0223</b>	<b>0.0407</b>	<b>0.0630</b>	<b>0.0000</b>	<b>2,475.6351</b>	<b>2,475.6351</b>	<b>0.7018</b>		<b>2,490.3719</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	0.1061	0.8866	1.2890	5.7400e-003	0.3040	0.0299	0.3339	0.0785	0.0275	0.1061		539.7094	539.7094	3.7300e-003		539.7878
Vendor	0.0113	0.0719	0.1515	4.3000e-004	0.0125	1.8300e-003	0.0143	3.5600e-003	1.6900e-003	5.2500e-003		40.2119	40.2119	2.7000e-004		40.2176
Worker	0.1780	0.2158	2.7502	0.0102	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		698.1687	698.1687	0.0294		698.7855
<b>Total</b>	<b>0.2954</b>	<b>1.1744</b>	<b>4.1907</b>	<b>0.0164</b>	<b>1.1213</b>	<b>0.0379</b>	<b>1.1592</b>	<b>0.2955</b>	<b>0.0349</b>	<b>0.3305</b>		<b>1,278.0901</b>	<b>1,278.0901</b>	<b>0.0334</b>		<b>1,278.7908</b>

### 3.3 Grading - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3796	12.2808	14.9056	0.0257		0.5794	0.5794		0.5395	0.5395		2,476.2021	2,476.2021	0.7006		2,490.9151
<b>Total</b>	<b>1.3796</b>	<b>12.2808</b>	<b>14.9056</b>	<b>0.0257</b>	<b>0.5303</b>	<b>0.5794</b>	<b>1.1096</b>	<b>0.0573</b>	<b>0.5395</b>	<b>0.5968</b>		<b>2,476.2021</b>	<b>2,476.2021</b>	<b>0.7006</b>		<b>2,490.9151</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	0.1065	0.8868	1.2798	5.7500e-003	0.3733	0.0299	0.4033	0.0956	0.0275	0.1231		541.1029	541.1029	3.7900e-003		541.1826
Vendor	0.0112	0.0716	0.1487	4.3000e-004	0.0125	1.8300e-003	0.0143	3.5600e-003	1.6900e-003	5.2500e-003		40.3204	40.3204	2.7000e-004		40.3261
Worker	0.1694	0.2045	2.6192	0.0102	0.8048	6.2200e-003	0.8110	0.2134	5.7700e-003	0.2192		692.2084	692.2084	0.0286		692.8085
<b>Total</b>	<b>0.2870</b>	<b>1.1628</b>	<b>4.0477</b>	<b>0.0164</b>	<b>1.1906</b>	<b>0.0380</b>	<b>1.2286</b>	<b>0.3125</b>	<b>0.0350</b>	<b>0.3475</b>		<b>1,273.6317</b>	<b>1,273.6317</b>	<b>0.0326</b>		<b>1,274.3172</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.3049	1.3211	16.9046	0.0257		0.0407	0.0407		0.0407	0.0407	0.0000	2,476.2021	2,476.2021	0.7006		2,490.9151
<b>Total</b>	<b>0.3049</b>	<b>1.3211</b>	<b>16.9046</b>	<b>0.0257</b>	<b>0.2068</b>	<b>0.0407</b>	<b>0.2475</b>	<b>0.0223</b>	<b>0.0407</b>	<b>0.0630</b>	<b>0.0000</b>	<b>2,476.2021</b>	<b>2,476.2021</b>	<b>0.7006</b>		<b>2,490.9151</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	0.1065	0.8868	1.2798	5.7500e-003	0.3733	0.0299	0.4033	0.0956	0.0275	0.1231		541.1029	541.1029	3.7900e-003		541.1826
Vendor	0.0112	0.0716	0.1487	4.3000e-004	0.0125	1.8300e-003	0.0143	3.5600e-003	1.6900e-003	5.2500e-003		40.3204	40.3204	2.7000e-004		40.3261
Worker	0.1694	0.2045	2.6192	0.0102	0.8048	6.2200e-003	0.8110	0.2134	5.7700e-003	0.2192		692.2084	692.2084	0.0286		692.8085
<b>Total</b>	<b>0.2870</b>	<b>1.1628</b>	<b>4.0477</b>	<b>0.0164</b>	<b>1.1906</b>	<b>0.0380</b>	<b>1.2286</b>	<b>0.3125</b>	<b>0.0350</b>	<b>0.3475</b>		<b>1,273.6317</b>	<b>1,273.6317</b>	<b>0.0326</b>		<b>1,274.3172</b>

## 3.4 Building Construction - 2022

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4147	12.3763	12.7623	0.0212		0.6280	0.6280		0.5916	0.5916		1,999.9175	1,999.9175	0.5076		2,010.5771
<b>Total</b>	<b>1.4147</b>	<b>12.3763</b>	<b>12.7623</b>	<b>0.0212</b>		<b>0.6280</b>	<b>0.6280</b>		<b>0.5916</b>	<b>0.5916</b>		<b>1,999.9175</b>	<b>1,999.9175</b>	<b>0.5076</b>		<b>2,010.5771</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	1.5915	11.7204	20.5334	0.0561	1.6258	0.2412	1.8670	0.4631	0.2219	0.6850		5,252.7095	5,252.7095	0.0387			5,253.5215
Worker	7.0146	8.5576	108.8204	0.3803	30.0455	0.2298	30.2753	7.9682	0.2131	8.1813		26,469.3826	26,469.3826	1.1411			26,493.3465
<b>Total</b>	<b>8.6061</b>	<b>20.2780</b>	<b>129.3538</b>	<b>0.4364</b>	<b>31.6713</b>	<b>0.4710</b>	<b>32.1422</b>	<b>8.4313</b>	<b>0.4350</b>	<b>8.8663</b>		<b>31,722.0921</b>	<b>31,722.0921</b>	<b>1.1798</b>			<b>31,746.8680</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	0.4956	2.4112	13.6737	0.0212		0.0931	0.0931		0.0931	0.0931	0.0000	1,999.9175	1,999.9175	0.5076			2,010.5771
<b>Total</b>	<b>0.4956</b>	<b>2.4112</b>	<b>13.6737</b>	<b>0.0212</b>		<b>0.0931</b>	<b>0.0931</b>		<b>0.0931</b>	<b>0.0931</b>	<b>0.0000</b>	<b>1,999.9175</b>	<b>1,999.9175</b>	<b>0.5076</b>			<b>2,010.5771</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	1.5915	11.7204	20.5334	0.0561	1.6258	0.2412	1.8670	0.4631	0.2219	0.6850		5,252.7095	5,252.7095	0.0387			5,253.5215
Worker	7.0146	8.5576	108.8204	0.3803	30.0455	0.2298	30.2753	7.9682	0.2131	8.1813		26,469.3826	26,469.3826	1.1411			26,493.3465
<b>Total</b>	<b>8.6061</b>	<b>20.2780</b>	<b>129.3538</b>	<b>0.4364</b>	<b>31.6713</b>	<b>0.4710</b>	<b>32.1422</b>	<b>8.4313</b>	<b>0.4350</b>	<b>8.8663</b>		<b>31,722.0921</b>	<b>31,722.0921</b>	<b>1.1798</b>			<b>31,746.8680</b>

### 3.4 Building Construction - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3107	11.4150	12.6651	0.0212		0.5443	0.5443		0.5127	0.5127		2,000.7941	2,000.7941	0.5037		2,011.3720
<b>Total</b>	<b>1.3107</b>	<b>11.4150</b>	<b>12.6651</b>	<b>0.0212</b>		<b>0.5443</b>	<b>0.5443</b>		<b>0.5127</b>	<b>0.5127</b>		<b>2,000.7941</b>	<b>2,000.7941</b>	<b>0.5037</b>		<b>2,011.3720</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	1.4738	9.3506	19.6986	0.0558	1.6258	0.2382	1.8639	0.4631	0.2191	0.6822		5,227.5512	5,227.5512	0.0348		5,228.2812
Worker	6.6450	8.0576	102.6726	0.3802	30.0455	0.2296	30.2751	7.9682	0.2130	8.1812		26,064.9663	26,064.9663	1.0964		26,087.9908
<b>Total</b>	<b>8.1188</b>	<b>17.4082</b>	<b>122.3712</b>	<b>0.4360</b>	<b>31.6713</b>	<b>0.4678</b>	<b>32.1391</b>	<b>8.4313</b>	<b>0.4321</b>	<b>8.8634</b>		<b>31,292.5175</b>	<b>31,292.5175</b>	<b>1.1312</b>		<b>31,316.2719</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	0.4733	2.3689	13.6558	0.0212		0.0843	0.0843		0.0843	0.0843	0.0000	2,000.7941	2,000.7941	0.5037		2,011.3720
<b>Total</b>	<b>0.4733</b>	<b>2.3689</b>	<b>13.6558</b>	<b>0.0212</b>		<b>0.0843</b>	<b>0.0843</b>		<b>0.0843</b>	<b>0.0843</b>	<b>0.0000</b>	<b>2,000.7941</b>	<b>2,000.7941</b>	<b>0.5037</b>		<b>2,011.3720</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	1.4738	9.3506	19.6986	0.0558	1.6258	0.2382	1.8639	0.4631	0.2191	0.6822		5,227.5512	5,227.5512	0.0348		5,228.2812
Worker	6.6450	8.0576	102.6726	0.3802	30.0455	0.2296	30.2751	7.9682	0.2130	8.1812		26,064.9663	26,064.9663	1.0964		26,087.9908
<b>Total</b>	<b>8.1188</b>	<b>17.4082</b>	<b>122.3712</b>	<b>0.4360</b>	<b>31.6713</b>	<b>0.4678</b>	<b>32.1391</b>	<b>8.4313</b>	<b>0.4321</b>	<b>8.8634</b>		<b>31,292.5175</b>	<b>31,292.5175</b>	<b>1.1312</b>		<b>31,316.2719</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2329	10.6909	12.6042	0.0212		0.4790	0.4790		0.4510	0.4510		2,001.2833	2,001.2833	0.5011		2,011.8062
<b>Total</b>	<b>1.2329</b>	<b>10.6909</b>	<b>12.6042</b>	<b>0.0212</b>		<b>0.4790</b>	<b>0.4790</b>		<b>0.4510</b>	<b>0.4510</b>		<b>2,001.2833</b>	<b>2,001.2833</b>	<b>0.5011</b>		<b>2,011.8062</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	1.4525	9.3026	19.3242	0.0559	1.6258	0.2383	1.8641	0.4631	0.2192	0.6823		5,241.6496	5,241.6496	0.0353		5,242.3903
Worker	6.3244	7.6330	97.7834	0.3823	30.0455	0.2321	30.2776	7.9682	0.2153	8.1835		25,842.4455	25,842.4455	1.0669		25,864.8509
<b>Total</b>	<b>7.7768</b>	<b>16.9356</b>	<b>117.1077</b>	<b>0.4382</b>	<b>31.6713</b>	<b>0.4703</b>	<b>32.1416</b>	<b>8.4313</b>	<b>0.4345</b>	<b>8.8658</b>		<b>31,084.0951</b>	<b>31,084.0951</b>	<b>1.1022</b>		<b>31,107.2411</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	0.4547	2.3291	13.6416	0.0212		0.0766	0.0766		0.0766	0.0766	0.0000	2,001.2833	2,001.2833	0.5011		2,011.8062
<b>Total</b>	<b>0.4547</b>	<b>2.3291</b>	<b>13.6416</b>	<b>0.0212</b>		<b>0.0766</b>	<b>0.0766</b>		<b>0.0766</b>	<b>0.0766</b>	<b>0.0000</b>	<b>2,001.2833</b>	<b>2,001.2833</b>	<b>0.5011</b>		<b>2,011.8062</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	1.4525	9.3026	19.3242	0.0559	1.6258	0.2383	1.8641	0.4631	0.2192	0.6823		5,241.6496	5,241.6496	0.0353		5,242.3903
Worker	6.3244	7.6330	97.7834	0.3823	30.0455	0.2321	30.2776	7.9682	0.2153	8.1835		25,842.4455	25,842.4455	1.0669		25,864.8509
<b>Total</b>	<b>7.7768</b>	<b>16.9356</b>	<b>117.1077</b>	<b>0.4382</b>	<b>31.6713</b>	<b>0.4703</b>	<b>32.1416</b>	<b>8.4313</b>	<b>0.4345</b>	<b>8.8658</b>		<b>31,084.0951</b>	<b>31,084.0951</b>	<b>1.1022</b>		<b>31,107.2411</b>

### 3.5 Paving - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9446	9.1347	11.5108	0.0163		0.5089	0.5089		0.4682	0.4682		1,581.7169	1,581.7169	0.5116		1,592.4597
Paving	0.0572					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000
<b>Total</b>	<b>1.0017</b>	<b>9.1347</b>	<b>11.5108</b>	<b>0.0163</b>		<b>0.5089</b>	<b>0.5089</b>		<b>0.4682</b>	<b>0.4682</b>		<b>1,581.7169</b>	<b>1,581.7169</b>	<b>0.5116</b>		<b>1,592.4597</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	1.2705	1.5334	19.6440	0.0768	6.0359	0.0466	6.0825	1.6008	0.0433	1.6440		5,191.5627	5,191.5627	0.2143		5,196.0638
<b>Total</b>	<b>1.2705</b>	<b>1.5334</b>	<b>19.6440</b>	<b>0.0768</b>	<b>6.0359</b>	<b>0.0466</b>	<b>6.0825</b>	<b>1.6008</b>	<b>0.0433</b>	<b>1.6440</b>		<b>5,191.5627</b>	<b>5,191.5627</b>	<b>0.2143</b>		<b>5,196.0638</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	0.2000	0.8666	12.3322	0.0163		0.0267	0.0267		0.0267	0.0267	0.0000	1,581.7169	1,581.7169	0.5116		1,592.4597
Paving	0.0572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2572</b>	<b>0.8666</b>	<b>12.3322</b>	<b>0.0163</b>		<b>0.0267</b>	<b>0.0267</b>		<b>0.0267</b>	<b>0.0267</b>	<b>0.0000</b>	<b>1,581.7169</b>	<b>1,581.7169</b>	<b>0.5116</b>		<b>1,592.4597</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	1.2705	1.5334	19.6440	0.0768	6.0359	0.0466	6.0825	1.6008	0.0433	1.6440		5,191.5627	5,191.5627	0.2143		5,196.0638
<b>Total</b>	<b>1.2705</b>	<b>1.5334</b>	<b>19.6440</b>	<b>0.0768</b>	<b>6.0359</b>	<b>0.0466</b>	<b>6.0825</b>	<b>1.6008</b>	<b>0.0433</b>	<b>1.6440</b>		<b>5,191.5627</b>	<b>5,191.5627</b>	<b>0.2143</b>		<b>5,196.0638</b>

### 3.6 Architectural Coating - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.0046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.7809
<b>Total</b>	<b>50.1853</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.7809</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	0.1224	0.1477	1.8916	7.3900e-003	0.5812	4.4900e-003	0.5857	0.1542	4.1600e-003	0.1583		499.9283	499.9283	0.0206		500.3617
<b>Total</b>	<b>0.1224</b>	<b>0.1477</b>	<b>1.8916</b>	<b>7.3900e-003</b>	<b>0.5812</b>	<b>4.4900e-003</b>	<b>0.5857</b>	<b>0.1542</b>	<b>4.1600e-003</b>	<b>0.1583</b>		<b>499.9283</b>	<b>499.9283</b>	<b>0.0206</b>		<b>500.3617</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	50.0046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.7809
<b>Total</b>	<b>50.0343</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.7809</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	0.1224	0.1477	1.8916	7.3900e-003	0.5812	4.4900e-003	0.5857	0.1542	4.1600e-003	0.1583		499.9283	499.9283	0.0206		500.3617
<b>Total</b>	<b>0.1224</b>	<b>0.1477</b>	<b>1.8916</b>	<b>7.3900e-003</b>	<b>0.5812</b>	<b>4.4900e-003</b>	<b>0.5857</b>	<b>0.1542</b>	<b>4.1600e-003</b>	<b>0.1583</b>		<b>499.9283</b>	<b>499.9283</b>	<b>0.0206</b>		<b>500.3617</b>

## Harbor UCLA Master Plan- Phase 6 South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	250.00	1000sqft	5.74	250,000.00	0
Medical Office Building	97.00	1000sqft	2.23	97,000.00	0
Other Asphalt Surfaces	75.00	1000sqft	1.72	75,000.00	0
Other Asphalt Surfaces	13.50	1000sqft	0.31	13,500.00	0
Unenclosed Parking with Elevator	1,000.00	Space	9.00	400,000.00	0
City Park	22.00	Acre	22.00	958,320.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment -

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information



tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	93.00
tblConstructionPhase	NumDays	740.00	374.00
tblConstructionPhase	NumDays	50.00	85.00
tblConstructionPhase	NumDays	75.00	675.00
tblConstructionPhase	NumDays	55.00	93.00
tblConstructionPhase	PhaseEndDate	9/16/2024	5/8/2024
tblConstructionPhase	PhaseEndDate	3/23/2026	5/8/2024
tblConstructionPhase	PhaseEndDate	9/16/2024	5/8/2024
tblConstructionPhase	PhaseStartDate	5/9/2024	1/1/2024
tblConstructionPhase	PhaseStartDate	10/16/2024	12/2/2022
tblConstructionPhase	PhaseStartDate	5/9/2024	1/1/2024
tblGrading	MaterialExported	0.00	31,953.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblTripsAndVMT	HaulingTripNumber	1,453.00	10,229.00
tblTripsAndVMT	HaulingTripNumber	3,159.00	5,325.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	28.00	466.00
tblTripsAndVMT	WorkerTripNumber	15.00	72.00

tbITripsAndVMT	WorkerTripNumber	652.00	2,688.00
tbITripsAndVMT	WorkerTripNumber	13.00	540.00
tbITripsAndVMT	WorkerTripNumber	130.00	52.00

## 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					
2021	7.3761	63.8493	83.3593	0.2123	13.5370	2.4720	16.0090	3.1383	2.3022	5.4406	0.0000	18,674.2698	18,674.2698	1.8804	0.0000	18,713.7585
2022	12.1966	57.7610	156.3334	0.4743	33.3905	2.2294	35.2968	8.8007	2.0753	10.5788	0.0000	35,731.9449	35,731.9449	2.4276	0.0000	35,782.9242
2023	11.4295	44.4009	149.1998	0.4739	33.3228	1.7067	35.0295	8.7841	1.5914	10.3755	0.0000	35,311.6145	35,311.6145	2.3715	0.0000	35,361.4160
2024	63.5063	54.2060	176.6532	0.5740	40.0094	2.1895	42.1989	10.5560	2.0383	12.5942	0.0000	42,301.5835	42,301.5835	3.1004	0.0000	42,366.6927
<b>Total</b>	<b>94.5085</b>	<b>220.2171</b>	<b>565.5456</b>	<b>1.7345</b>	<b>120.2597</b>	<b>8.5975</b>	<b>128.5342</b>	<b>31.2791</b>	<b>8.0073</b>	<b>38.9891</b>	<b>0.0000</b>	<b>132,019.4127</b>	<b>132,019.4127</b>	<b>9.7799</b>	<b>0.0000</b>	<b>132,224.7914</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					
2021	4.6030	32.0739	80.1810	0.2123	11.2809	0.9343	12.2152	2.7967	0.8940	3.6907	0.0000	18,674.2698	18,674.2698	1.8804	0.0000	18,713.7585
2022	9.9758	29.6094	159.1217	0.4743	33.0670	0.8842	33.7118	8.7657	0.8442	9.3714	0.0000	35,731.9449	35,731.9449	2.4276	0.0000	35,782.9242
2023	9.4317	23.2650	152.1653	0.4739	32.9994	0.6326	33.6319	8.7491	0.5938	9.3429	0.0000	35,311.6145	35,311.6145	2.3715	0.0000	35,361.4160
2024	60.7577	25.5263	180.5332	0.5740	39.6859	0.7092	40.3951	10.5211	0.6665	11.1876	0.0000	42,301.5835	42,301.5835	3.1004	0.0000	42,366.6927
<b>Total</b>	<b>84.7683</b>	<b>110.4746</b>	<b>572.0011</b>	<b>1.7345</b>	<b>117.0332</b>	<b>3.1602</b>	<b>119.9540</b>	<b>30.8327</b>	<b>2.9984</b>	<b>33.5926</b>	<b>0.0000</b>	<b>132,019.4127</b>	<b>132,019.4127</b>	<b>9.7799</b>	<b>0.0000</b>	<b>132,224.7914</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	N20	CO2e
Percent Reduction	10.31	49.83	-1.14	0.00	2.68	63.24	6.68	1.43	62.55	13.84	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/17/2021	3/15/2022	5	85	
2	Grading	Grading	3/16/2022	10/15/2024	5	675	
3	Building Construction	Building Construction	12/2/2022	5/8/2024	5	374	
4	Paving	Paving	1/1/2024	5/8/2024	5	93	
5	Architectural Coating	Architectural Coating	1/1/2024	5/8/2024	5	93	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 337.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 231,998; Non-Residential Outdoor: 169,333 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48
Grading	Excavators	0	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40

Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Scrapers	0	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	11	466.00	4.00	10,229.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	72.00	2.00	5,325.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	2,688.00	260.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	540.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	52.00	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

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					3.6985	0.0000	3.6985	0.5600	0.0000	0.5600			0.0000			0.0000
Off-Road	4.1438	40.4558	40.2995	0.0616		1.9641	1.9641		1.8347	1.8347		5,943.2630	5,943.2630	1.6076		5,977.0235
<b>Total</b>	<b>4.1438</b>	<b>40.4558</b>	<b>40.2995</b>	<b>0.0616</b>	<b>3.6985</b>	<b>1.9641</b>	<b>5.6626</b>	<b>0.5600</b>	<b>1.8347</b>	<b>2.3946</b>		<b>5,943.2630</b>	<b>5,943.2630</b>	<b>1.6076</b>		<b>5,977.0235</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	1.9006	21.4567	24.4518	0.0881	4.6047	0.4643	5.0690	1.1898	0.4271	1.6170		8,278.3008	8,278.3008	0.0656		8,279.6777
Vendor	0.0271	0.2032	0.3999	8.6000e-004	0.0250	3.7800e-003	0.0288	7.1200e-003	3.4800e-003	0.0106		80.1975	80.1975	6.0000e-004		80.2102
Worker	1.3046	1.7337	18.2082	0.0618	5.2088	0.0399	5.2487	1.3814	0.0370	1.4184		4,372.5086	4,372.5086	0.2066		4,376.8472
<b>Total</b>	<b>3.2323</b>	<b>23.3935</b>	<b>43.0598</b>	<b>0.1507</b>	<b>9.8385</b>	<b>0.5079</b>	<b>10.3464</b>	<b>2.5783</b>	<b>0.4676</b>	<b>3.0459</b>		<b>12,731.0069</b>	<b>12,731.0069</b>	<b>0.2728</b>		<b>12,736.7350</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					1.4424	0.0000	1.4424	0.2184	0.0000	0.2184			0.0000			0.0000
Off-Road	1.3707	8.6804	37.1211	0.0616		0.4264	0.4264		0.4264	0.4264	0.0000	5,943.2630	5,943.2630	1.6076		5,977.0235
<b>Total</b>	<b>1.3707</b>	<b>8.6804</b>	<b>37.1211</b>	<b>0.0616</b>	<b>1.4424</b>	<b>0.4264</b>	<b>1.8688</b>	<b>0.2184</b>	<b>0.4264</b>	<b>0.6448</b>	<b>0.0000</b>	<b>5,943.2630</b>	<b>5,943.2630</b>	<b>1.6076</b>		<b>5,977.0235</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	1.9006	21.4567	24.4518	0.0881	4.6047	0.4643	5.0690	1.1898	0.4271	1.6170		8,278.3008	8,278.3008	0.0656		8,279.6777
Vendor	0.0271	0.2032	0.3999	8.6000e-004	0.0250	3.7800e-003	0.0288	7.1200e-003	3.4800e-003	0.0106		80.1975	80.1975	6.0000e-004		80.2102
Worker	1.3046	1.7337	18.2082	0.0618	5.2088	0.0399	5.2487	1.3814	0.0370	1.4184		4,372.5086	4,372.5086	0.2066		4,376.8472
<b>Total</b>	<b>3.2323</b>	<b>23.3935</b>	<b>43.0598</b>	<b>0.1507</b>	<b>9.8385</b>	<b>0.5079</b>	<b>10.3464</b>	<b>2.5783</b>	<b>0.4676</b>	<b>3.0459</b>		<b>12,731.0069</b>	<b>12,731.0069</b>	<b>0.2728</b>		<b>12,736.7350</b>

### 3.2 Demolition - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6985	0.0000	3.6985	0.5600	0.0000	0.5600			0.0000			0.0000
Off-Road	3.8261	36.3585	39.5704	0.0617		1.7257	1.7257		1.6117	1.6117		5,945.3308	5,945.3308	1.6041		5,979.0177
<b>Total</b>	<b>3.8261</b>	<b>36.3585</b>	<b>39.5704</b>	<b>0.0617</b>	<b>3.6985</b>	<b>1.7257</b>	<b>5.4242</b>	<b>0.5600</b>	<b>1.6117</b>	<b>2.1717</b>		<b>5,945.3308</b>	<b>5,945.3308</b>	<b>1.6041</b>		<b>5,979.0177</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	1.9011	19.5923	24.2384	0.0880	3.1075	0.4601	3.5676	0.8223	0.4233	1.2456		8,271.4715	8,271.4715	0.0670		8,272.8786
Vendor	0.0265	0.1844	0.3905	8.6000e-004	0.0250	3.7400e-003	0.0288	7.1200e-003	3.4400e-003	0.0106		80.1251	80.1251	6.2000e-004		80.1380
Worker	1.2356	1.6258	17.1162	0.0617	5.2088	0.0398	5.2486	1.3814	0.0370	1.4183		4,299.8210	4,299.8210	0.1978		4,303.9755
<b>Total</b>	<b>3.1632</b>	<b>21.4025</b>	<b>41.7451</b>	<b>0.1506</b>	<b>8.3413</b>	<b>0.5037</b>	<b>8.8449</b>	<b>2.2109</b>	<b>0.4637</b>	<b>2.6745</b>		<b>12,651.4176</b>	<b>12,651.4176</b>	<b>0.2655</b>		<b>12,656.9921</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					1.4424	0.0000	1.4424	0.2184	0.0000	0.2184			0.0000			0.0000
Off-Road	1.3165	8.2069	37.1024	0.0617		0.3805	0.3805		0.3805	0.3805	0.0000	5,945.3308	5,945.3308	1.6041		5,979.0177
<b>Total</b>	<b>1.3165</b>	<b>8.2069</b>	<b>37.1024</b>	<b>0.0617</b>	<b>1.4424</b>	<b>0.3805</b>	<b>1.8229</b>	<b>0.2184</b>	<b>0.3805</b>	<b>0.5989</b>	<b>0.0000</b>	<b>5,945.3308</b>	<b>5,945.3308</b>	<b>1.6041</b>		<b>5,979.0177</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	1.9011	19.5923	24.2384	0.0880	3.1075	0.4601	3.5676	0.8223	0.4233	1.2456		8,271.4715	8,271.4715	0.0670		8,272.8786
Vendor	0.0265	0.1844	0.3905	8.6000e-004	0.0250	3.7400e-003	0.0288	7.1200e-003	3.4400e-003	0.0106		80.1251	80.1251	6.2000e-004		80.1380
Worker	1.2356	1.6258	17.1162	0.0617	5.2088	0.0398	5.2486	1.3814	0.0370	1.4183		4,299.8210	4,299.8210	0.1978		4,303.9755
<b>Total</b>	<b>3.1632</b>	<b>21.4025</b>	<b>41.7451</b>	<b>0.1506</b>	<b>8.3413</b>	<b>0.5037</b>	<b>8.8449</b>	<b>2.2109</b>	<b>0.4637</b>	<b>2.6745</b>		<b>12,651.4176</b>	<b>12,651.4176</b>	<b>0.2655</b>		<b>12,656.9921</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.6065	15.0603	15.0278	0.0256		0.7673	0.7673		0.7146	0.7146		2,474.8538	2,474.8538	0.7035		2,489.6269
<b>Total</b>	<b>1.6065</b>	<b>15.0603</b>	<b>15.0278</b>	<b>0.0256</b>	<b>0.5303</b>	<b>0.7673</b>	<b>1.2975</b>	<b>0.0573</b>	<b>0.7146</b>	<b>0.7719</b>		<b>2,474.8538</b>	<b>2,474.8538</b>	<b>0.7035</b>		<b>2,489.6269</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	0.1246	1.2844	1.5889	5.7700e-003	0.3717	0.0302	0.4019	0.0951	0.0278	0.1229		542.2310	542.2310	4.3900e-003		542.3233
Vendor	0.0132	0.0922	0.1953	4.3000e-004	0.0125	1.8700e-003	0.0144	3.5600e-003	1.7200e-003	5.2800e-003		40.0625	40.0625	3.1000e-004		40.0690
Worker	0.1909	0.2512	2.6446	9.5400e-003	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		664.3500	664.3500	0.0306		664.9919
<b>Total</b>	<b>0.3288</b>	<b>1.6278</b>	<b>4.4288</b>	<b>0.0157</b>	<b>1.1890</b>	<b>0.0382</b>	<b>1.2272</b>	<b>0.3121</b>	<b>0.0352</b>	<b>0.3473</b>		<b>1,246.6436</b>	<b>1,246.6436</b>	<b>0.0353</b>		<b>1,247.3842</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.3049	1.3211	16.9046	0.0256		0.0407	0.0407		0.0407	0.0407	0.0000	2,474.8538	2,474.8538	0.7035		2,489.6269
<b>Total</b>	<b>0.3049</b>	<b>1.3211</b>	<b>16.9046</b>	<b>0.0256</b>	<b>0.2068</b>	<b>0.0407</b>	<b>0.2475</b>	<b>0.0223</b>	<b>0.0407</b>	<b>0.0630</b>	<b>0.0000</b>	<b>2,474.8538</b>	<b>2,474.8538</b>	<b>0.7035</b>		<b>2,489.6269</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	0.1246	1.2844	1.5889	5.7700e-003	0.3717	0.0302	0.4019	0.0951	0.0278	0.1229		542.2310	542.2310	4.3900e-003		542.3233
Vendor	0.0132	0.0922	0.1953	4.3000e-004	0.0125	1.8700e-003	0.0144	3.5600e-003	1.7200e-003	5.2800e-003		40.0625	40.0625	3.1000e-004		40.0690
Worker	0.1909	0.2512	2.6446	9.5400e-003	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		664.3500	664.3500	0.0306		664.9919
<b>Total</b>	<b>0.3288</b>	<b>1.6278</b>	<b>4.4288</b>	<b>0.0157</b>	<b>1.1890</b>	<b>0.0382</b>	<b>1.2272</b>	<b>0.3121</b>	<b>0.0352</b>	<b>0.3473</b>		<b>1,246.6436</b>	<b>1,246.6436</b>	<b>0.0353</b>		<b>1,247.3842</b>

### 3.3 Grading - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.4653	13.4107	14.9298	0.0257		0.6548	0.6548		0.6100	0.6100		2,475.6351	2,475.6351	0.7018		2,490.3719
<b>Total</b>	<b>1.4653</b>	<b>13.4107</b>	<b>14.9298</b>	<b>0.0257</b>	<b>0.5303</b>	<b>0.6548</b>	<b>1.1850</b>	<b>0.0573</b>	<b>0.6100</b>	<b>0.6672</b>		<b>2,475.6351</b>	<b>2,475.6351</b>	<b>0.7018</b>		<b>2,490.3719</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	0.1106	0.9169	1.5075	5.7300e-003	0.3040	0.0300	0.3340	0.0785	0.0276	0.1061		538.4115	538.4115	3.8000e-003		538.4912
Vendor	0.0123	0.0733	0.1880	4.3000e-004	0.0125	1.8500e-003	0.0144	3.5600e-003	1.7000e-003	5.2600e-003		39.8689	39.8689	2.8000e-004		39.8748
Worker	0.1809	0.2364	2.4905	9.5300e-003	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		654.1029	654.1029	0.0294		654.7196
<b>Total</b>	<b>0.3038</b>	<b>1.2265</b>	<b>4.1860</b>	<b>0.0157</b>	<b>1.1213</b>	<b>0.0380</b>	<b>1.1593</b>	<b>0.2955</b>	<b>0.0350</b>	<b>0.3305</b>		<b>1,232.3833</b>	<b>1,232.3833</b>	<b>0.0335</b>		<b>1,233.0856</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.3049	1.3211	16.9046	0.0257		0.0407	0.0407		0.0407	0.0407	0.0000	2,475.6351	2,475.6351	0.7018		2,490.3719
<b>Total</b>	<b>0.3049</b>	<b>1.3211</b>	<b>16.9046</b>	<b>0.0257</b>	<b>0.2068</b>	<b>0.0407</b>	<b>0.2475</b>	<b>0.0223</b>	<b>0.0407</b>	<b>0.0630</b>	<b>0.0000</b>	<b>2,475.6351</b>	<b>2,475.6351</b>	<b>0.7018</b>		<b>2,490.3719</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	0.1106	0.9169	1.5075	5.7300e-003	0.3040	0.0300	0.3340	0.0785	0.0276	0.1061		538.4115	538.4115	3.8000e-003		538.4912
Vendor	0.0123	0.0733	0.1880	4.3000e-004	0.0125	1.8500e-003	0.0144	3.5600e-003	1.7000e-003	5.2600e-003		39.8689	39.8689	2.8000e-004		39.8748
Worker	0.1809	0.2364	2.4905	9.5300e-003	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		654.1029	654.1029	0.0294		654.7196
<b>Total</b>	<b>0.3038</b>	<b>1.2265</b>	<b>4.1860</b>	<b>0.0157</b>	<b>1.1213</b>	<b>0.0380</b>	<b>1.1593</b>	<b>0.2955</b>	<b>0.0350</b>	<b>0.3305</b>		<b>1,232.3833</b>	<b>1,232.3833</b>	<b>0.0335</b>		<b>1,233.0856</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3796	12.2808	14.9056	0.0257		0.5794	0.5794		0.5395	0.5395		2,476.2021	2,476.2021	0.7006		2,490.9151
<b>Total</b>	<b>1.3796</b>	<b>12.2808</b>	<b>14.9056</b>	<b>0.0257</b>	<b>0.5303</b>	<b>0.5794</b>	<b>1.1096</b>	<b>0.0573</b>	<b>0.5395</b>	<b>0.5968</b>		<b>2,476.2021</b>	<b>2,476.2021</b>	<b>0.7006</b>		<b>2,490.9151</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	0.1109	0.9171	1.4947	5.7400e-003	0.3733	0.0300	0.4033	0.0956	0.0276	0.1231		539.8050	539.8050	3.8600e-003		539.8860
Vendor	0.0121	0.0729	0.1843	4.3000e-004	0.0125	1.8500e-003	0.0144	3.5600e-003	1.7000e-003	5.2600e-003		39.9774	39.9774	2.8000e-004		39.9833
Worker	0.1721	0.2238	2.3668	9.5800e-003	0.8048	6.2200e-003	0.8110	0.2134	5.7700e-003	0.2192		648.3457	648.3457	0.0286		648.9459
<b>Total</b>	<b>0.2951</b>	<b>1.2137</b>	<b>4.0457</b>	<b>0.0158</b>	<b>1.1906</b>	<b>0.0381</b>	<b>1.2287</b>	<b>0.3125</b>	<b>0.0351</b>	<b>0.3476</b>		<b>1,228.1280</b>	<b>1,228.1280</b>	<b>0.0327</b>		<b>1,228.8152</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.3049	1.3211	16.9046	0.0257		0.0407	0.0407		0.0407	0.0407	0.0000	2,476.2021	2,476.2021	0.7006		2,490.9151
<b>Total</b>	<b>0.3049</b>	<b>1.3211</b>	<b>16.9046</b>	<b>0.0257</b>	<b>0.2068</b>	<b>0.0407</b>	<b>0.2475</b>	<b>0.0223</b>	<b>0.0407</b>	<b>0.0630</b>	<b>0.0000</b>	<b>2,476.2021</b>	<b>2,476.2021</b>	<b>0.7006</b>		<b>2,490.9151</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	0.1109	0.9171	1.4947	5.7400e-003	0.3733	0.0300	0.4033	0.0956	0.0276	0.1231		539.8050	539.8050	3.8600e-003		539.8860
Vendor	0.0121	0.0729	0.1843	4.3000e-004	0.0125	1.8500e-003	0.0144	3.5600e-003	1.7000e-003	5.2600e-003		39.9774	39.9774	2.8000e-004		39.9833
Worker	0.1721	0.2238	2.3668	9.5800e-003	0.8048	6.2200e-003	0.8110	0.2134	5.7700e-003	0.2192		648.3457	648.3457	0.0286		648.9459
<b>Total</b>	<b>0.2951</b>	<b>1.2137</b>	<b>4.0457</b>	<b>0.0158</b>	<b>1.1906</b>	<b>0.0381</b>	<b>1.2287</b>	<b>0.3125</b>	<b>0.0351</b>	<b>0.3476</b>		<b>1,228.1280</b>	<b>1,228.1280</b>	<b>0.0327</b>		<b>1,228.8152</b>

### 3.4 Building Construction - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.4147	12.3763	12.7623	0.0212		0.6280	0.6280		0.5916	0.5916		1,999.9175	1,999.9175	0.5076			2,010.5771
<b>Total</b>	<b>1.4147</b>	<b>12.3763</b>	<b>12.7623</b>	<b>0.0212</b>		<b>0.6280</b>	<b>0.6280</b>		<b>0.5916</b>	<b>0.5916</b>		<b>1,999.9175</b>	<b>1,999.9175</b>	<b>0.5076</b>			<b>2,010.5771</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	1.7192	11.9880	25.3842	0.0557	1.6258	0.2431	1.8688	0.4631	0.2236	0.6867		5,208.1291	5,208.1291	0.0401			5,208.9711
Worker	7.1274	9.3779	98.7305	0.3561	30.0455	0.2298	30.2753	7.9682	0.2131	8.1813		24,802.4009	24,802.4009	1.1411			24,826.3649
<b>Total</b>	<b>8.8466</b>	<b>21.3658</b>	<b>124.1146</b>	<b>0.4118</b>	<b>31.6713</b>	<b>0.4728</b>	<b>32.1441</b>	<b>8.4313</b>	<b>0.4367</b>	<b>8.8680</b>		<b>30,010.5300</b>	<b>30,010.5300</b>	<b>1.1812</b>			<b>30,035.3359</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	0.4956	2.4112	13.6737	0.0212		0.0931	0.0931		0.0931	0.0931	0.0000	1,999.9175	1,999.9175	0.5076			2,010.5771
<b>Total</b>	<b>0.4956</b>	<b>2.4112</b>	<b>13.6737</b>	<b>0.0212</b>		<b>0.0931</b>	<b>0.0931</b>		<b>0.0931</b>	<b>0.0931</b>	<b>0.0000</b>	<b>1,999.9175</b>	<b>1,999.9175</b>	<b>0.5076</b>			<b>2,010.5771</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	1.7192	11.9880	25.3842	0.0557	1.6258	0.2431	1.8688	0.4631	0.2236	0.6867		5,208.1291	5,208.1291	0.0401			5,208.9711
Worker	7.1274	9.3779	98.7305	0.3561	30.0455	0.2298	30.2753	7.9682	0.2131	8.1813		24,802.4009	24,802.4009	1.1411			24,826.3649
<b>Total</b>	<b>8.8466</b>	<b>21.3658</b>	<b>124.1146</b>	<b>0.4118</b>	<b>31.6713</b>	<b>0.4728</b>	<b>32.1441</b>	<b>8.4313</b>	<b>0.4367</b>	<b>8.8680</b>		<b>30,010.5300</b>	<b>30,010.5300</b>	<b>1.1812</b>			<b>30,035.3359</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3107	11.4150	12.6651	0.0212		0.5443	0.5443		0.5127	0.5127		2,000.7941	2,000.7941	0.5037			2,011.3720
<b>Total</b>	<b>1.3107</b>	<b>11.4150</b>	<b>12.6651</b>	<b>0.0212</b>		<b>0.5443</b>	<b>0.5443</b>		<b>0.5127</b>	<b>0.5127</b>		<b>2,000.7941</b>	<b>2,000.7941</b>	<b>0.5037</b>			<b>2,011.3720</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	1.5965	9.5240	24.4415	0.0554	1.6258	0.2400	1.8658	0.4631	0.2208	0.6839		5,182.9623	5,182.9623	0.0362			5,183.7223
Worker	6.7532	8.8246	92.9774	0.3560	30.0455	0.2296	30.2751	7.9682	0.2130	8.1812		24,419.8397	24,419.8397	1.0964			24,442.8642
<b>Total</b>	<b>8.3497</b>	<b>18.3486</b>	<b>117.4189</b>	<b>0.4114</b>	<b>31.6713</b>	<b>0.4696</b>	<b>32.1409</b>	<b>8.4313</b>	<b>0.4338</b>	<b>8.8651</b>		<b>29,602.8020</b>	<b>29,602.8020</b>	<b>1.1326</b>			<b>29,626.5865</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	0.4733	2.3689	13.6558	0.0212		0.0843	0.0843		0.0843	0.0843	0.0000	2,000.7941	2,000.7941	0.5037		2,011.3720
<b>Total</b>	<b>0.4733</b>	<b>2.3689</b>	<b>13.6558</b>	<b>0.0212</b>		<b>0.0843</b>	<b>0.0843</b>		<b>0.0843</b>	<b>0.0843</b>	<b>0.0000</b>	<b>2,000.7941</b>	<b>2,000.7941</b>	<b>0.5037</b>		<b>2,011.3720</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	1.5965	9.5240	24.4415	0.0554	1.6258	0.2400	1.8658	0.4631	0.2208	0.6839		5,182.9623	5,182.9623	0.0362		5,183.7223
Worker	6.7532	8.8246	92.9774	0.3560	30.0455	0.2296	30.2751	7.9682	0.2130	8.1812		24,419.8397	24,419.8397	1.0964		24,442.8642
<b>Total</b>	<b>8.3497</b>	<b>18.3486</b>	<b>117.4189</b>	<b>0.4114</b>	<b>31.6713</b>	<b>0.4696</b>	<b>32.1409</b>	<b>8.4313</b>	<b>0.4338</b>	<b>8.8651</b>		<b>29,602.8020</b>	<b>29,602.8020</b>	<b>1.1326</b>		<b>29,626.5865</b>

## 3.4 Building Construction - 2024

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2329	10.6909	12.6042	0.0212		0.4790	0.4790		0.4510	0.4510		2,001.2833	2,001.2833	0.5011		2,011.8062
<b>Total</b>	<b>1.2329</b>	<b>10.6909</b>	<b>12.6042</b>	<b>0.0212</b>		<b>0.4790</b>	<b>0.4790</b>		<b>0.4510</b>	<b>0.4510</b>		<b>2,001.2833</b>	<b>2,001.2833</b>	<b>0.5011</b>		<b>2,011.8062</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	1.5702	9.4732	23.9559	0.0555	1.6258	0.2401	1.8659	0.4631	0.2209	0.6840		5,197.0561	5,197.0561	0.0367			5,197.8268
Worker	6.4262	8.3541	88.3605	0.3578	30.0455	0.2321	30.2776	7.9682	0.2153	8.1835		24,204.9065	24,204.9065	1.0669			24,227.3119
<b>Total</b>	<b>7.9964</b>	<b>17.8273</b>	<b>112.3164</b>	<b>0.4133</b>	<b>31.6713</b>	<b>0.4721</b>	<b>32.1434</b>	<b>8.4313</b>	<b>0.4362</b>	<b>8.8674</b>		<b>29,401.9626</b>	<b>29,401.9626</b>	<b>1.1036</b>			<b>29,425.1387</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	0.4547	2.3291	13.6416	0.0212		0.0766	0.0766		0.0766	0.0766	0.0000	2,001.2833	2,001.2833	0.5011			2,011.8062
<b>Total</b>	<b>0.4547</b>	<b>2.3291</b>	<b>13.6416</b>	<b>0.0212</b>		<b>0.0766</b>	<b>0.0766</b>		<b>0.0766</b>	<b>0.0766</b>	<b>0.0000</b>	<b>2,001.2833</b>	<b>2,001.2833</b>	<b>0.5011</b>			<b>2,011.8062</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	1.5702	9.4732	23.9559	0.0555	1.6258	0.2401	1.8659	0.4631	0.2209	0.6840		5,197.0561	5,197.0561	0.0367			5,197.8268
Worker	6.4262	8.3541	88.3605	0.3578	30.0455	0.2321	30.2776	7.9682	0.2153	8.1835		24,204.9065	24,204.9065	1.0669			24,227.3119
<b>Total</b>	<b>7.9964</b>	<b>17.8273</b>	<b>112.3164</b>	<b>0.4133</b>	<b>31.6713</b>	<b>0.4721</b>	<b>32.1434</b>	<b>8.4313</b>	<b>0.4362</b>	<b>8.8674</b>		<b>29,401.9626</b>	<b>29,401.9626</b>	<b>1.1036</b>			<b>29,425.1387</b>

### 3.5 Paving - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9446	9.1347	11.5108	0.0163		0.5089	0.5089		0.4682	0.4682		1,581.7169	1,581.7169	0.5116		1,592.4597
Paving	0.0572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0017</b>	<b>9.1347</b>	<b>11.5108</b>	<b>0.0163</b>		<b>0.5089</b>	<b>0.5089</b>		<b>0.4682</b>	<b>0.4682</b>		<b>1,581.7169</b>	<b>1,581.7169</b>	<b>0.5116</b>		<b>1,592.4597</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	1.2910	1.6783	17.7510	0.0719	6.0359	0.0466	6.0825	1.6008	0.0433	1.6440		4,862.5928	4,862.5928	0.2143		4,867.0939
<b>Total</b>	<b>1.2910</b>	<b>1.6783</b>	<b>17.7510</b>	<b>0.0719</b>	<b>6.0359</b>	<b>0.0466</b>	<b>6.0825</b>	<b>1.6008</b>	<b>0.0433</b>	<b>1.6440</b>		<b>4,862.5928</b>	<b>4,862.5928</b>	<b>0.2143</b>		<b>4,867.0939</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	0.2000	0.8666	12.3322	0.0163		0.0267	0.0267		0.0267	0.0267	0.0000	1,581.7169	1,581.7169	0.5116		1,592.4597
Paving	0.0572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2572</b>	<b>0.8666</b>	<b>12.3322</b>	<b>0.0163</b>		<b>0.0267</b>	<b>0.0267</b>		<b>0.0267</b>	<b>0.0267</b>	<b>0.0000</b>	<b>1,581.7169</b>	<b>1,581.7169</b>	<b>0.5116</b>		<b>1,592.4597</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	1.2910	1.6783	17.7510	0.0719	6.0359	0.0466	6.0825	1.6008	0.0433	1.6440		4,862.5928	4,862.5928	0.2143		4,867.0939
<b>Total</b>	<b>1.2910</b>	<b>1.6783</b>	<b>17.7510</b>	<b>0.0719</b>	<b>6.0359</b>	<b>0.0466</b>	<b>6.0825</b>	<b>1.6008</b>	<b>0.0433</b>	<b>1.6440</b>		<b>4,862.5928</b>	<b>4,862.5928</b>	<b>0.2143</b>		<b>4,867.0939</b>

### 3.6 Architectural Coating - 2024

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.0046					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.7809
<b>Total</b>	<b>50.1853</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.7809</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	0.1243	0.1616	1.7094	6.9200e-003	0.5812	4.4900e-003	0.5857	0.1542	4.1600e-003	0.1583		468.2497	468.2497	0.0206			468.6831
<b>Total</b>	<b>0.1243</b>	<b>0.1616</b>	<b>1.7094</b>	<b>6.9200e-003</b>	<b>0.5812</b>	<b>4.4900e-003</b>	<b>0.5857</b>	<b>0.1542</b>	<b>4.1600e-003</b>	<b>0.1583</b>		<b>468.2497</b>	<b>468.2497</b>	<b>0.0206</b>			<b>468.6831</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	50.0046					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159			281.7809
<b>Total</b>	<b>50.0343</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>			<b>281.7809</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	0.1243	0.1616	1.7094	6.9200e-003	0.5812	4.4900e-003	0.5857	0.1542	4.1600e-003	0.1583		468.2497	468.2497	0.0206			468.6831
<b>Total</b>	<b>0.1243</b>	<b>0.1616</b>	<b>1.7094</b>	<b>6.9200e-003</b>	<b>0.5812</b>	<b>4.4900e-003</b>	<b>0.5857</b>	<b>0.1542</b>	<b>4.1600e-003</b>	<b>0.1583</b>		<b>468.2497</b>	<b>468.2497</b>	<b>0.0206</b>			<b>468.6831</b>

## **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**  
*Phase C Construction Emissions*

## Harbor UCLA Master Plan- Phase C

### South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	29.20	1000sqft	0.67	29,200.00	0
General Light Industry	6.20	1000sqft	0.14	6,200.00	0
General Light Industry	54.72	1000sqft	1.26	54,720.00	0
Unrefrigerated Warehouse-No Rail	58.00	1000sqft	1.33	58,000.00	0
Parking Lot	24.00	Space	0.22	6,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2022
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Client Provided Information
- Construction Phase - Client Provided Information
- Off-road Equipment -
- Off-road Equipment - Client Provided Information
- Off-road Equipment - Client Provided Information
- Off-road Equipment - Client Provided Information



tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	127.00
tblConstructionPhase	NumDays	230.00	129.00
tblConstructionPhase	NumDays	230.00	911.00
tblConstructionPhase	NumDays	20.00	139.00
tblConstructionPhase	NumDays	8.00	652.00
tblConstructionPhase	NumDays	18.00	36.00
tblConstructionPhase	NumDays	18.00	84.00
tblConstructionPhase	PhaseEndDate	8/14/2020	3/28/2023
tblConstructionPhase	PhaseEndDate	9/27/2021	2/19/2020
tblConstructionPhase	PhaseEndDate	8/17/2023	3/28/2023
tblConstructionPhase	PhaseEndDate	9/9/2021	3/30/2021
tblConstructionPhase	PhaseEndDate	5/17/2023	2/19/2020
tblConstructionPhase	PhaseEndDate	7/24/2023	3/28/2023
tblConstructionPhase	PhaseStartDate	2/20/2020	10/1/2022
tblConstructionPhase	PhaseStartDate	3/31/2021	8/23/2019
tblConstructionPhase	PhaseStartDate	2/20/2020	10/1/2019
tblConstructionPhase	PhaseStartDate	3/13/2019	10/1/2018
tblConstructionPhase	PhaseStartDate	3/29/2023	1/1/2020
tblConstructionPhase	PhaseStartDate	3/29/2023	12/1/2022
tblGrading	MaterialExported	0.00	28,027.00
tblGrading	MaterialImported	0.00	10,851.00
tblLandUse	LandUseSquareFeet	9,600.00	6,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblTripsAndVMT	HaulingTripNumber	95.00	1,002.00
tblTripsAndVMT	HaulingTripNumber	4,860.00	6,480.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	25.00	27.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	80.00
tblTripsAndVMT	WorkerTripNumber	35.00	174.00
tblTripsAndVMT	WorkerTripNumber	62.00	233.00
tblTripsAndVMT	WorkerTripNumber	62.00	260.00
tblTripsAndVMT	WorkerTripNumber	10.00	28.00
tblTripsAndVMT	WorkerTripNumber	12.00	44.00
tblTripsAndVMT	WorkerTripNumber	13.00	48.00

## 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					
2018	10.3737	94.9140	82.2932	0.1486	11.1167	5.1747	16.2914	4.5398	4.8287	9.3685	0.0000	13,951.8853	13,951.8853	2.7954	0.0000	14,010.5893
2019	13.0536	105.1194	114.8765	0.2272	14.7348	5.6294	20.3641	5.5412	5.2684	10.8096	0.0000	19,929.4717	19,929.4717	3.2390	0.0000	19,997.4914
2020	12.8707	103.2948	118.4407	0.2400	15.0465	5.4613	20.5078	5.6239	5.1029	10.7268	0.0000	20,557.1772	20,557.1772	3.4762	0.0000	20,630.1766
2021	8.2740	67.7751	79.0500	0.1643	12.9932	3.3860	16.3792	5.0557	3.1611	8.2168	0.0000	14,162.6290	14,162.6290	2.5371	0.0000	14,215.9083
2022	31.2848	30.7081	45.7705	0.1006	4.1034	1.6164	5.7198	1.0915	1.5077	2.5992	0.0000	8,314.9680	8,314.9680	1.3333	0.0000	8,342.9673
2023	30.9845	27.9872	44.7069	0.1006	4.1034	1.4214	5.5247	1.0915	1.3255	2.4171	0.0000	8,261.0763	8,261.0763	1.3219	0.0000	8,288.8367
<b>Total</b>	<b>106.8413</b>	<b>429.7985</b>	<b>485.1378</b>	<b>0.9813</b>	<b>62.0979</b>	<b>22.6890</b>	<b>84.7870</b>	<b>22.9437</b>	<b>21.1943</b>	<b>44.1380</b>	<b>0.0000</b>	<b>85,177.2075</b>	<b>85,177.2075</b>	<b>14.7030</b>	<b>0.0000</b>	<b>85,485.9695</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					
2018	2.7652	12.3102	81.0528	0.1486	7.0255	0.3638	7.3894	2.4714	0.3560	2.8274	0.0000	13,951.8853	13,951.8853	2.7954	0.0000	14,010.5893
2019	5.0608	19.1660	113.6399	0.2272	10.7337	0.6380	11.3717	3.4864	0.6257	4.1121	0.0000	19,929.4717	19,929.4717	3.2390	0.0000	19,997.4914
2020	5.0249	18.9302	119.0118	0.2400	11.0455	0.6205	11.6660	3.5691	0.6085	4.1776	0.0000	20,557.1772	20,557.1772	3.4762	0.0000	20,630.1766
2021	3.1320	11.9707	79.9344	0.1643	8.9922	0.3840	9.3762	3.0009	0.3761	3.3770	0.0000	14,162.6290	14,162.6290	2.5371	0.0000	14,215.9083
2022	28.9329	5.9829	47.6169	0.1006	4.1034	0.1862	4.2895	1.0915	0.1820	1.2735	0.0000	8,314.9680	8,314.9680	1.3333	0.0000	8,342.9673
2023	28.8500	5.6290	46.7073	0.1006	4.1034	0.1771	4.2804	1.0915	0.1729	1.2645	0.0000	8,261.0763	8,261.0763	1.3219	0.0000	8,288.8367
<b>Total</b>	<b>73.7657</b>	<b>73.9890</b>	<b>487.9630</b>	<b>0.9813</b>	<b>46.0036</b>	<b>2.3697</b>	<b>48.3733</b>	<b>14.7109</b>	<b>2.3212</b>	<b>17.0321</b>	<b>0.0000</b>	<b>85,177.2075</b>	<b>85,177.2075</b>	<b>14.7030</b>	<b>0.0000</b>	<b>85,485.9694</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	30.96	82.79	-0.58	0.00	25.92	89.56	42.95	35.88	89.05	61.41	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/30/2018	3/12/2019	5	139	
2	Grading	Grading	10/1/2018	3/30/2021	5	652	
3	SCE SY	Building Construction	8/23/2019	2/19/2020	5	129	
4	Building Construction	Building Construction	10/1/2019	3/28/2023	5	911	
5	Paving 2	Paving	1/1/2020	2/19/2020	5	36	
6	Architectural Coating	Architectural Coating	10/1/2022	3/28/2023	5	127	
7	Paving	Paving	12/1/2022	3/28/2023	5	84	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 326

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 222,450; Non-Residential Outdoor: 74,150 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Graders	1	8.00	174	0.41
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36
Demolition	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48

Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Cranes	1	8.00	226	0.29
Grading	Excavators	1	8.00	162	0.38
Grading	Forklifts	1	8.00	89	0.20
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Tractors/Loaders/Backhoes	5	8.00	97	0.37
Grading	Welders	1	8.00	46	0.45
SCE SY	Cement and Mortar Mixers	1	8.00	9	0.56
SCE SY	Cranes	0	7.00	226	0.29
SCE SY	Forklifts	0	8.00	89	0.20
SCE SY	Generator Sets	1	8.00	84	0.74
SCE SY	Graders	1	8.00	174	0.41
SCE SY	Tractors/Loaders/Backhoes	3	7.00	97	0.37
SCE SY	Welders	1	8.00	46	0.45
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Graders	1	8.00	174	0.41
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 2	Cement and Mortar Mixers	1	6.00	9	0.56
Paving 2	Pavers	0	8.00	125	0.42
Paving 2	Paving Equipment	1	6.00	130	0.36
Paving 2	Rollers	1	6.00	80	0.38
Paving 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving 2	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48

Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	6.00	130	0.36
Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	80.00	4.00	1,002.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	14	174.00	4.00	6,480.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
SCE SY	7	233.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	260.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	4	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	48.00	2.00	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

Clean Paved Roads

### 3.2 Demolition - 2018

#### 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					0.1478	0.0000	0.1478	0.0224	0.0000	0.0224			0.0000			0.0000
Off-Road	3.1337	31.1382	22.7983	0.0363		1.8103	1.8103		1.6869	1.6869		3,618.7891	3,618.7891	0.9880		3,639.5362
<b>Total</b>	<b>3.1337</b>	<b>31.1382</b>	<b>22.7983</b>	<b>0.0363</b>	<b>0.1478</b>	<b>1.8103</b>	<b>1.9581</b>	<b>0.0224</b>	<b>1.6869</b>	<b>1.7092</b>		<b>3,618.7891</b>	<b>3,618.7891</b>	<b>0.9880</b>		<b>3,639.5362</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	0.1149	1.6996	1.3136	5.3100e-003	0.1809	0.0282	0.2091	0.0480	0.0260	0.0739		518.8158	518.8158	3.8200e-003		518.8960
Vendor	0.0287	0.2905	0.3575	8.7000e-004	0.0250	4.7400e-003	0.0298	7.1200e-003	4.3600e-003	0.0115		84.4270	84.4270	6.0000e-004		84.4396
Worker	0.2699	0.3412	4.2670	0.0113	0.8942	7.0000e-003	0.9012	0.2372	6.4800e-003	0.2436		881.1901	881.1901	0.0418		882.0676
<b>Total</b>	<b>0.4136</b>	<b>2.3313</b>	<b>5.9382</b>	<b>0.0175</b>	<b>1.1001</b>	<b>0.0400</b>	<b>1.1400</b>	<b>0.2922</b>	<b>0.0368</b>	<b>0.3291</b>		<b>1,484.4328</b>	<b>1,484.4328</b>	<b>0.0462</b>		<b>1,485.4032</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0576	0.0000	0.0576	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	0.4309	1.8674	24.6793	0.0363		0.0575	0.0575		0.0575	0.0575	0.0000	3,618.7891	3,618.7891	0.9880		3,639.5362
<b>Total</b>	<b>0.4309</b>	<b>1.8674</b>	<b>24.6793</b>	<b>0.0363</b>	<b>0.0576</b>	<b>0.0575</b>	<b>0.1151</b>	<b>8.7300e-003</b>	<b>0.0575</b>	<b>0.0662</b>	<b>0.0000</b>	<b>3,618.7891</b>	<b>3,618.7891</b>	<b>0.9880</b>		<b>3,639.5362</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	0.1149	1.6996	1.3136	5.3100e-003	0.1809	0.0282	0.2091	0.0480	0.0260	0.0739		518.8158	518.8158	3.8200e-003		518.8960
Vendor	0.0287	0.2905	0.3575	8.7000e-004	0.0250	4.7400e-003	0.0298	7.1200e-003	4.3600e-003	0.0115		84.4270	84.4270	6.0000e-004		84.4396
Worker	0.2699	0.3412	4.2670	0.0113	0.8942	7.0000e-003	0.9012	0.2372	6.4800e-003	0.2436		881.1901	881.1901	0.0418		882.0676
<b>Total</b>	<b>0.4136</b>	<b>2.3313</b>	<b>5.9382</b>	<b>0.0175</b>	<b>1.1001</b>	<b>0.0400</b>	<b>1.1400</b>	<b>0.2922</b>	<b>0.0368</b>	<b>0.3291</b>		<b>1,484.4328</b>	<b>1,484.4328</b>	<b>0.0462</b>		<b>1,485.4032</b>

### 3.2 Demolition - 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					0.1478	0.0000	0.1478	0.0224	0.0000	0.0224			0.0000			0.0000
Off-Road	2.8175	27.9854	22.5043	0.0363		1.5682	1.5682		1.4611	1.4611		3,568.8344	3,568.8344	0.9833		3,589.4846
<b>Total</b>	<b>2.8175</b>	<b>27.9854</b>	<b>22.5043</b>	<b>0.0363</b>	<b>0.1478</b>	<b>1.5682</b>	<b>1.7160</b>	<b>0.0224</b>	<b>1.4611</b>	<b>1.4835</b>		<b>3,568.8344</b>	<b>3,568.8344</b>	<b>0.9833</b>		<b>3,589.4846</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	0.1119	1.5890	1.2886	5.2900e-003	0.2901	0.0282	0.3183	0.0748	0.0260	0.1008		508.7044	508.7044	3.7900e-003		508.7840
Vendor	0.0272	0.2680	0.3441	8.7000e-004	0.0250	4.5000e-003	0.0295	7.1200e-003	4.1400e-003	0.0113		82.7818	82.7818	5.9000e-004		82.7942
Worker	0.2484	0.3130	3.9216	0.0113	0.8942	6.8800e-003	0.9011	0.2372	6.3800e-003	0.2435		847.7810	847.7810	0.0391		848.6025
<b>Total</b>	<b>0.3875</b>	<b>2.1700</b>	<b>5.5543</b>	<b>0.0175</b>	<b>1.2093</b>	<b>0.0396</b>	<b>1.2489</b>	<b>0.3190</b>	<b>0.0365</b>	<b>0.3555</b>		<b>1,439.2672</b>	<b>1,439.2672</b>	<b>0.0435</b>		<b>1,440.1807</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0576	0.0000	0.0576	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	0.4309	1.8674	24.6793	0.0363		0.0575	0.0575		0.0575	0.0575	0.0000	3,568.8344	3,568.8344	0.9833		3,589.4846
<b>Total</b>	<b>0.4309</b>	<b>1.8674</b>	<b>24.6793</b>	<b>0.0363</b>	<b>0.0576</b>	<b>0.0575</b>	<b>0.1151</b>	<b>8.7300e-003</b>	<b>0.0575</b>	<b>0.0662</b>	<b>0.0000</b>	<b>3,568.8344</b>	<b>3,568.8344</b>	<b>0.9833</b>		<b>3,589.4846</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	0.1119	1.5890	1.2886	5.2900e-003	0.2901	0.0282	0.3183	0.0748	0.0260	0.1008		508.7044	508.7044	3.7900e-003		508.7840
Vendor	0.0272	0.2680	0.3441	8.7000e-004	0.0250	4.5000e-003	0.0295	7.1200e-003	4.1400e-003	0.0113		82.7818	82.7818	5.9000e-004		82.7942
Worker	0.2484	0.3130	3.9216	0.0113	0.8942	6.8800e-003	0.9011	0.2372	6.3800e-003	0.2435		847.7810	847.7810	0.0391		848.6025
<b>Total</b>	<b>0.3875</b>	<b>2.1700</b>	<b>5.5543</b>	<b>0.0175</b>	<b>1.2093</b>	<b>0.0396</b>	<b>1.2489</b>	<b>0.3190</b>	<b>0.0365</b>	<b>0.3555</b>		<b>1,439.2672</b>	<b>1,439.2672</b>	<b>0.0435</b>		<b>1,440.1807</b>

## 3.3 Grading - 2018

### 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					6.5591	0.0000	6.5591	3.3685	0.0000	3.3685			0.0000			0.0000
Off-Road	6.0522	58.0685	42.1073	0.0620		3.2655	3.2655		3.0507	3.0507		6,132.3490	6,132.3490	1.6645		6,167.3036
<b>Total</b>	<b>6.0522</b>	<b>58.0685</b>	<b>42.1073</b>	<b>0.0620</b>	<b>6.5591</b>	<b>3.2655</b>	<b>9.8245</b>	<b>3.3685</b>	<b>3.0507</b>	<b>6.4192</b>		<b>6,132.3490</b>	<b>6,132.3490</b>	<b>1.6645</b>		<b>6,167.3036</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	0.1584	2.3433	1.8111	7.3200e-003	1.3399	0.0389	1.3788	0.3338	0.0358	0.3696		715.2991	715.2991	5.2600e-003		715.4096
Vendor	0.0287	0.2905	0.3575	8.7000e-004	0.0250	4.7400e-003	0.0298	7.1200e-003	4.3600e-003	0.0115		84.4270	84.4270	6.0000e-004		84.4396
Worker	0.5871	0.7422	9.2808	0.0246	1.9449	0.0152	1.9601	0.5158	0.0141	0.5299		1,916.5884	1,916.5884	0.0909		1,918.4971
<b>Total</b>	<b>0.7742</b>	<b>3.3760</b>	<b>11.4494</b>	<b>0.0328</b>	<b>3.3098</b>	<b>0.0589</b>	<b>3.3687</b>	<b>0.8567</b>	<b>0.0543</b>	<b>0.9110</b>		<b>2,716.3144</b>	<b>2,716.3144</b>	<b>0.0968</b>		<b>2,718.3463</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					2.5580	0.0000	2.5580	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	1.1464	4.7355	38.9859	0.0620		0.2075	0.2075		0.2075	0.2075	0.0000	6,132.3490	6,132.3490	1.6645		6,167.3036
<b>Total</b>	<b>1.1464</b>	<b>4.7355</b>	<b>38.9859</b>	<b>0.0620</b>	<b>2.5580</b>	<b>0.2075</b>	<b>2.7655</b>	<b>1.3137</b>	<b>0.2075</b>	<b>1.5212</b>	<b>0.0000</b>	<b>6,132.3490</b>	<b>6,132.3490</b>	<b>1.6645</b>		<b>6,167.3036</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	0.1584	2.3433	1.8111	7.3200e-003	1.3399	0.0389	1.3788	0.3338	0.0358	0.3696		715.2991	715.2991	5.2600e-003		715.4096
Vendor	0.0287	0.2905	0.3575	8.7000e-004	0.0250	4.7400e-003	0.0298	7.1200e-003	4.3600e-003	0.0115		84.4270	84.4270	6.0000e-004		84.4396
Worker	0.5871	0.7422	9.2808	0.0246	1.9449	0.0152	1.9601	0.5158	0.0141	0.5299		1,916.5884	1,916.5884	0.0909		1,918.4971
<b>Total</b>	<b>0.7742</b>	<b>3.3760</b>	<b>11.4494</b>	<b>0.0328</b>	<b>3.3098</b>	<b>0.0589</b>	<b>3.3687</b>	<b>0.8567</b>	<b>0.0543</b>	<b>0.9110</b>		<b>2,716.3144</b>	<b>2,716.3144</b>	<b>0.0968</b>		<b>2,718.3463</b>

### 3.3 Grading - 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					6.5591	0.0000	6.5591	3.3685	0.0000	3.3685			0.0000			0.0000
Off-Road	5.4730	52.7512	41.0396	0.0620		2.8642	2.8642		2.6751	2.6751		6,051.4704	6,051.4704	1.6508		6,086.1378
<b>Total</b>	<b>5.4730</b>	<b>52.7512</b>	<b>41.0396</b>	<b>0.0620</b>	<b>6.5591</b>	<b>2.8642</b>	<b>9.4233</b>	<b>3.3685</b>	<b>2.6751</b>	<b>6.0436</b>		<b>6,051.4704</b>	<b>6,051.4704</b>	<b>1.6508</b>		<b>6,086.1378</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	0.1542	2.1908	1.7766	7.3000e-003	0.3701	0.0389	0.4090	0.0958	0.0358	0.1316		701.3583	701.3583	5.2300e-003		701.4682
Vendor	0.0272	0.2680	0.3441	8.7000e-004	0.0250	4.5000e-003	0.0295	7.1200e-003	4.1400e-003	0.0113		82.7818	82.7818	5.9000e-004		82.7942
Worker	0.5404	0.6808	8.5295	0.0246	1.9449	0.0150	1.9599	0.5158	0.0139	0.5297		1,843.9237	1,843.9237	0.0851		1,845.7104
<b>Total</b>	<b>0.7218</b>	<b>3.1395</b>	<b>10.6502</b>	<b>0.0327</b>	<b>2.3400</b>	<b>0.0584</b>	<b>2.3984</b>	<b>0.6187</b>	<b>0.0538</b>	<b>0.6725</b>		<b>2,628.0639</b>	<b>2,628.0639</b>	<b>0.0909</b>		<b>2,629.9728</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					2.5580	0.0000	2.5580	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	1.0898	4.6778	38.9341	0.0620		0.1936	0.1936		0.1936	0.1936	0.0000	6,051.4704	6,051.4704	1.6508		6,086.1378
<b>Total</b>	<b>1.0898</b>	<b>4.6778</b>	<b>38.9341</b>	<b>0.0620</b>	<b>2.5580</b>	<b>0.1936</b>	<b>2.7517</b>	<b>1.3137</b>	<b>0.1936</b>	<b>1.5073</b>	<b>0.0000</b>	<b>6,051.4704</b>	<b>6,051.4704</b>	<b>1.6508</b>		<b>6,086.1378</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	0.1542	2.1908	1.7766	7.3000e-003	0.3701	0.0389	0.4090	0.0958	0.0358	0.1316		701.3583	701.3583	5.2300e-003		701.4682
Vendor	0.0272	0.2680	0.3441	8.7000e-004	0.0250	4.5000e-003	0.0295	7.1200e-003	4.1400e-003	0.0113		82.7818	82.7818	5.9000e-004		82.7942
Worker	0.5404	0.6808	8.5295	0.0246	1.9449	0.0150	1.9599	0.5158	0.0139	0.5297		1,843.9237	1,843.9237	0.0851		1,845.7104
<b>Total</b>	<b>0.7218</b>	<b>3.1395</b>	<b>10.6502</b>	<b>0.0327</b>	<b>2.3400</b>	<b>0.0584</b>	<b>2.3984</b>	<b>0.6187</b>	<b>0.0538</b>	<b>0.6725</b>		<b>2,628.0639</b>	<b>2,628.0639</b>	<b>0.0909</b>		<b>2,629.9728</b>

### 3.3 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5591	0.0000	6.5591	3.3685	0.0000	3.3685			0.0000			0.0000
Off-Road	5.0116	48.1159	39.9895	0.0620		2.5303	2.5303		2.3625	2.3625		5,944.5397	5,944.5397	1.6397		5,978.9734
<b>Total</b>	<b>5.0116</b>	<b>48.1159</b>	<b>39.9895</b>	<b>0.0620</b>	<b>6.5591</b>	<b>2.5303</b>	<b>9.0894</b>	<b>3.3685</b>	<b>2.3625</b>	<b>5.7310</b>		<b>5,944.5397</b>	<b>5,944.5397</b>	<b>1.6397</b>		<b>5,978.9734</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	0.1513	1.9535	1.7504	7.2900e-003	0.3688	0.0386	0.4074	0.0955	0.0355	0.1310		685.5647	685.5647	5.2300e-003		685.6746
Vendor	0.0258	0.2339	0.3325	8.6000e-004	0.0250	4.1200e-003	0.0291	7.1200e-003	3.7900e-003	0.0109		80.9181	80.9181	5.8000e-004		80.9303
Worker	0.5065	0.6312	7.9509	0.0246	1.9449	0.0149	1.9598	0.5158	0.0138	0.5296		1,769.2975	1,769.2975	0.0806		1,770.9898
<b>Total</b>	<b>0.6837</b>	<b>2.8186</b>	<b>10.0337</b>	<b>0.0327</b>	<b>2.3387</b>	<b>0.0576</b>	<b>2.3963</b>	<b>0.6184</b>	<b>0.0531</b>	<b>0.6715</b>		<b>2,535.7804</b>	<b>2,535.7804</b>	<b>0.0864</b>		<b>2,537.5946</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					2.5580	0.0000	2.5580	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	1.0468	4.6249	38.8939	0.0620		0.1809	0.1809		0.1809	0.1809	0.0000	5,944.5397	5,944.5397	1.6397		5,978.9734
<b>Total</b>	<b>1.0468</b>	<b>4.6249</b>	<b>38.8939</b>	<b>0.0620</b>	<b>2.5580</b>	<b>0.1809</b>	<b>2.7389</b>	<b>1.3137</b>	<b>0.1809</b>	<b>1.4946</b>	<b>0.0000</b>	<b>5,944.5397</b>	<b>5,944.5397</b>	<b>1.6397</b>		<b>5,978.9734</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	0.1513	1.9535	1.7504	7.2900e-003	0.3688	0.0386	0.4074	0.0955	0.0355	0.1310		685.5647	685.5647	5.2300e-003		685.6746
Vendor	0.0258	0.2339	0.3325	8.6000e-004	0.0250	4.1200e-003	0.0291	7.1200e-003	3.7900e-003	0.0109		80.9181	80.9181	5.8000e-004		80.9303
Worker	0.5065	0.6312	7.9509	0.0246	1.9449	0.0149	1.9598	0.5158	0.0138	0.5296		1,769.2975	1,769.2975	0.0806		1,770.9898
<b>Total</b>	<b>0.6837</b>	<b>2.8186</b>	<b>10.0337</b>	<b>0.0327</b>	<b>2.3387</b>	<b>0.0576</b>	<b>2.3963</b>	<b>0.6184</b>	<b>0.0531</b>	<b>0.6715</b>		<b>2,535.7804</b>	<b>2,535.7804</b>	<b>0.0864</b>		<b>2,537.5946</b>

### 3.3 Grading - 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					
Fugitive Dust					6.5591	0.0000	6.5591	3.3685	0.0000	3.3685			0.0000			0.0000
Off-Road	4.5416	43.2104	38.8948	0.0620		2.1984	2.1984		2.0524	2.0524		5,944.5177	5,944.5177	1.6296		5,978.7395
<b>Total</b>	<b>4.5416</b>	<b>43.2104</b>	<b>38.8948</b>	<b>0.0620</b>	<b>6.5591</b>	<b>2.1984</b>	<b>8.7575</b>	<b>3.3685</b>	<b>2.0524</b>	<b>5.4209</b>		<b>5,944.5177</b>	<b>5,944.5177</b>	<b>1.6296</b>		<b>5,978.7395</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	0.1507	1.7111	1.7346	7.2900e-003	1.4017	0.0383	1.4400	0.3490	0.0352	0.3842		685.3187	685.3187	5.3300e-003		685.4307
Vendor	0.0250	0.1987	0.3234	8.6000e-004	0.0250	3.7500e-003	0.0288	7.1200e-003	3.4500e-003	0.0106		80.8838	80.8838	5.6000e-004		80.8960
Worker	0.4795	0.5904	7.4802	0.0246	1.9449	0.0149	1.9598	0.5158	0.0138	0.5296		1,742.1409	1,742.1409	0.0771		1,743.7608
<b>Total</b>	<b>0.6551</b>	<b>2.5001</b>	<b>9.5382</b>	<b>0.0328</b>	<b>3.3716</b>	<b>0.0569</b>	<b>3.4286</b>	<b>0.8719</b>	<b>0.0525</b>	<b>0.9244</b>		<b>2,508.3433</b>	<b>2,508.3433</b>	<b>0.0831</b>		<b>2,510.0875</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					2.5580	0.0000	2.5580	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	1.0073	4.5625	38.8457	0.0620		0.1681	0.1681		0.1681	0.1681	0.0000	5,944.5177	5,944.5177	1.6296		5,978.7395
<b>Total</b>	<b>1.0073</b>	<b>4.5625</b>	<b>38.8457</b>	<b>0.0620</b>	<b>2.5580</b>	<b>0.1681</b>	<b>2.7261</b>	<b>1.3137</b>	<b>0.1681</b>	<b>1.4818</b>	<b>0.0000</b>	<b>5,944.5177</b>	<b>5,944.5177</b>	<b>1.6296</b>		<b>5,978.7395</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	0.1507	1.7111	1.7346	7.2900e-003	1.4017	0.0383	1.4400	0.3490	0.0352	0.3842		685.3187	685.3187	5.3300e-003			685.4307
Vendor	0.0250	0.1987	0.3234	8.6000e-004	0.0250	3.7500e-003	0.0288	7.1200e-003	3.4500e-003	0.0106		80.8838	80.8838	5.8000e-004			80.8960
Worker	0.4795	0.5904	7.4802	0.0246	1.9449	0.0149	1.9598	0.5158	0.0138	0.5296		1,742.1409	1,742.1409	0.0771			1,743.7608
<b>Total</b>	<b>0.6551</b>	<b>2.5001</b>	<b>9.5382</b>	<b>0.0328</b>	<b>3.3716</b>	<b>0.0569</b>	<b>3.4286</b>	<b>0.8719</b>	<b>0.0525</b>	<b>0.9244</b>		<b>2,508.3433</b>	<b>2,508.3433</b>	<b>0.0831</b>			<b>2,510.0875</b>

### 3.4 SCE SY - 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						
Off-Road	2.2651	19.4723	16.4830	0.0242		1.1729	1.1729		1.1063	1.1063		2,303.6494	2,303.6494	0.5295			2,314.7689
<b>Total</b>	<b>2.2651</b>	<b>19.4723</b>	<b>16.4830</b>	<b>0.0242</b>		<b>1.1729</b>	<b>1.1729</b>		<b>1.1063</b>	<b>1.1063</b>		<b>2,303.6494</b>	<b>2,303.6494</b>	<b>0.5295</b>			<b>2,314.7689</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	0.1837	1.8088	2.3225	5.8400e-003	0.1688	0.0304	0.1992	0.0481	0.0280	0.0760		558.7773	558.7773	3.9800e-003			558.8610
Worker	0.7236	0.9116	11.4217	0.0329	2.6044	0.0200	2.6244	0.6907	0.0186	0.7093		2,469.1622	2,469.1622	0.1139			2,471.5547
<b>Total</b>	<b>0.9073</b>	<b>2.7203</b>	<b>13.7442</b>	<b>0.0388</b>	<b>2.7732</b>	<b>0.0504</b>	<b>2.8236</b>	<b>0.7388</b>	<b>0.0465</b>	<b>0.7853</b>		<b>3,027.9395</b>	<b>3,027.9395</b>	<b>0.1179</b>			<b>3,030.4157</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	0.6849	3.0367	16.9753	0.0242		0.1462	0.1462		0.1462	0.1462	0.0000	2,303.6494	2,303.6494	0.5295		2,314.7689
<b>Total</b>	<b>0.6849</b>	<b>3.0367</b>	<b>16.9753</b>	<b>0.0242</b>		<b>0.1462</b>	<b>0.1462</b>		<b>0.1462</b>	<b>0.1462</b>	<b>0.0000</b>	<b>2,303.6494</b>	<b>2,303.6494</b>	<b>0.5295</b>		<b>2,314.7689</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	0.1837	1.8088	2.3225	5.8400e-003	0.1688	0.0304	0.1992	0.0481	0.0280	0.0760		558.7773	558.7773	3.9800e-003		558.8610
Worker	0.7236	0.9116	11.4217	0.0329	2.6044	0.0200	2.6244	0.6907	0.0186	0.7093		2,469.1622	2,469.1622	0.1139		2,471.5547
<b>Total</b>	<b>0.9073</b>	<b>2.7203</b>	<b>13.7442</b>	<b>0.0388</b>	<b>2.7732</b>	<b>0.0504</b>	<b>2.8236</b>	<b>0.7388</b>	<b>0.0465</b>	<b>0.7853</b>		<b>3,027.9395</b>	<b>3,027.9395</b>	<b>0.1179</b>		<b>3,030.4157</b>

**3.4 SCE SY - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0629	17.9027	16.3213	0.0242		1.0351	1.0351		0.9761	0.9761		2,272.0268	2,272.0268	0.5209		2,282.9651
<b>Total</b>	<b>2.0629</b>	<b>17.9027</b>	<b>16.3213</b>	<b>0.0242</b>		<b>1.0351</b>	<b>1.0351</b>		<b>0.9761</b>	<b>0.9761</b>		<b>2,272.0268</b>	<b>2,272.0268</b>	<b>0.5209</b>		<b>2,282.9651</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	0.1744	1.5791	2.2440	5.8300e-003	0.1688	0.0278	0.1966	0.0481	0.0256	0.0737		546.1973	546.1973	3.9000e-003			546.2792
Worker	0.6783	0.8452	10.6468	0.0329	2.6044	0.0199	2.6243	0.6907	0.0185	0.7092		2,369.2318	2,369.2318	0.1079			2,371.4978
<b>Total</b>	<b>0.8527</b>	<b>2.4243</b>	<b>12.8909</b>	<b>0.0387</b>	<b>2.7732</b>	<b>0.0477</b>	<b>2.8209</b>	<b>0.7388</b>	<b>0.0440</b>	<b>0.7828</b>		<b>2,915.4291</b>	<b>2,915.4291</b>	<b>0.1118</b>			<b>2,917.7770</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	0.6418	2.9837	16.9352	0.0242		0.1333	0.1333		0.1333	0.1333	0.0000	2,272.0268	2,272.0268	0.5209			2,282.9651
<b>Total</b>	<b>0.6418</b>	<b>2.9837</b>	<b>16.9352</b>	<b>0.0242</b>		<b>0.1333</b>	<b>0.1333</b>		<b>0.1333</b>	<b>0.1333</b>	<b>0.0000</b>	<b>2,272.0268</b>	<b>2,272.0268</b>	<b>0.5209</b>			<b>2,282.9651</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	0.1744	1.5791	2.2440	5.8300e-003	0.1688	0.0278	0.1966	0.0481	0.0256	0.0737		546.1973	546.1973	3.9000e-003			546.2792
Worker	0.6783	0.8452	10.6468	0.0329	2.6044	0.0199	2.6243	0.6907	0.0185	0.7092		2,369.2318	2,369.2318	0.1079			2,371.4978
<b>Total</b>	<b>0.8527</b>	<b>2.4243</b>	<b>12.8909</b>	<b>0.0387</b>	<b>2.7732</b>	<b>0.0477</b>	<b>2.8209</b>	<b>0.7388</b>	<b>0.0440</b>	<b>0.7828</b>		<b>2,915.4291</b>	<b>2,915.4291</b>	<b>0.1118</b>			<b>2,917.7770</b>

### 3.5 Building Construction - 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					
Off-Road	2.7090	24.3441	18.0639	0.0273		1.4330	1.4330		1.3401	1.3401		2,645.6739	2,645.6739	0.7191		2,660.7743
<b>Total</b>	<b>2.7090</b>	<b>24.3441</b>	<b>18.0639</b>	<b>0.0273</b>		<b>1.4330</b>	<b>1.4330</b>		<b>1.3401</b>	<b>1.3401</b>		<b>2,645.6739</b>	<b>2,645.6739</b>	<b>0.7191</b>		<b>2,660.7743</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	0.1701	1.6748	2.1505	5.4100e-003	0.1563	0.0281	0.1844	0.0445	0.0259	0.0704		517.3864	517.3864	3.6900e-003		517.4639
Worker	0.8074	1.0172	12.7452	0.0367	2.9062	0.0224	2.9285	0.7707	0.0207	0.7915		2,755.2883	2,755.2883	0.1271		2,757.9581
<b>Total</b>	<b>0.9775</b>	<b>2.6920</b>	<b>14.8957</b>	<b>0.0421</b>	<b>3.0625</b>	<b>0.0505</b>	<b>3.1130</b>	<b>0.8153</b>	<b>0.0466</b>	<b>0.8619</b>		<b>3,272.6747</b>	<b>3,272.6747</b>	<b>0.1308</b>		<b>3,275.4219</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	0.6795	2.8997	18.4405	0.0273		0.1389	0.1389		0.1389	0.1389	0.0000	2,645.6739	2,645.6739	0.7191		2,660.7743
<b>Total</b>	<b>0.6795</b>	<b>2.8997</b>	<b>18.4405</b>	<b>0.0273</b>		<b>0.1389</b>	<b>0.1389</b>		<b>0.1389</b>	<b>0.1389</b>	<b>0.0000</b>	<b>2,645.6739</b>	<b>2,645.6739</b>	<b>0.7191</b>		<b>2,660.7743</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	0.1701	1.6748	2.1505	5.4100e-003	0.1563	0.0281	0.1844	0.0445	0.0259	0.0704		517.3864	517.3864	3.6900e-003			517.4639
Worker	0.8074	1.0172	12.7452	0.0367	2.9062	0.0224	2.9285	0.7707	0.0207	0.7915		2,755.2883	2,755.2883	0.1271			2,757.9581
<b>Total</b>	<b>0.9775</b>	<b>2.6920</b>	<b>14.8957</b>	<b>0.0421</b>	<b>3.0625</b>	<b>0.0505</b>	<b>3.1130</b>	<b>0.8153</b>	<b>0.0466</b>	<b>0.8619</b>		<b>3,272.6747</b>	<b>3,272.6747</b>	<b>0.1308</b>			<b>3,275.4219</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.4601	22.2140	17.7403	0.0273		1.2594	1.2594		1.1774	1.1774		2,600.1286	2,600.1286	0.7122			2,615.0845
<b>Total</b>	<b>2.4601</b>	<b>22.2140</b>	<b>17.7403</b>	<b>0.0273</b>		<b>1.2594</b>	<b>1.2594</b>		<b>1.1774</b>	<b>1.1774</b>		<b>2,600.1286</b>	<b>2,600.1286</b>	<b>0.7122</b>			<b>2,615.0845</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	0.1615	1.4621	2.0778	5.4000e-003	0.1563	0.0258	0.1821	0.0445	0.0237	0.0682		505.7383	505.7383	3.6100e-003			505.8141
Worker	0.7569	0.9432	11.8806	0.0367	2.9062	0.0222	2.9284	0.7707	0.0206	0.7913		2,643.7779	2,643.7779	0.1204			2,646.3066
<b>Total</b>	<b>0.9184</b>	<b>2.4053</b>	<b>13.9584</b>	<b>0.0421</b>	<b>3.0625</b>	<b>0.0480</b>	<b>3.1105</b>	<b>0.8153</b>	<b>0.0443</b>	<b>0.8595</b>		<b>3,149.5162</b>	<b>3,149.5162</b>	<b>0.1240</b>			<b>3,152.1207</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	0.6364	2.8468	18.4003	0.0273		0.1261	0.1261		0.1261	0.1261	0.0000	2,600.1286	2,600.1286	0.7122		2,615.0845
<b>Total</b>	<b>0.6364</b>	<b>2.8468</b>	<b>18.4003</b>	<b>0.0273</b>		<b>0.1261</b>	<b>0.1261</b>		<b>0.1261</b>	<b>0.1261</b>	<b>0.0000</b>	<b>2,600.1286</b>	<b>2,600.1286</b>	<b>0.7122</b>		<b>2,615.0845</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	0.1615	1.4621	2.0778	5.4000e-003	0.1563	0.0258	0.1821	0.0445	0.0237	0.0682		505.7383	505.7383	3.6100e-003		505.8141
Worker	0.7569	0.9432	11.8806	0.0367	2.9062	0.0222	2.9284	0.7707	0.0206	0.7913		2,643.7779	2,643.7779	0.1204		2,646.3066
<b>Total</b>	<b>0.9184</b>	<b>2.4053</b>	<b>13.9584</b>	<b>0.0421</b>	<b>3.0625</b>	<b>0.0480</b>	<b>3.1105</b>	<b>0.8153</b>	<b>0.0443</b>	<b>0.8595</b>		<b>3,149.5162</b>	<b>3,149.5162</b>	<b>0.1240</b>		<b>3,152.1207</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2047	19.9408	17.4186	0.0274		1.0849	1.0849		1.0141	1.0141		2,601.0453	2,601.0453	0.7055		2,615.8614
<b>Total</b>	<b>2.2047</b>	<b>19.9408</b>	<b>17.4186</b>	<b>0.0274</b>		<b>1.0849</b>	<b>1.0849</b>		<b>1.0141</b>	<b>1.0141</b>		<b>2,601.0453</b>	<b>2,601.0453</b>	<b>0.7055</b>		<b>2,615.8614</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	0.1562	1.2416	2.0211	5.4000e-003	0.1563	0.0235	0.1798	0.0445	0.0216	0.0661		505.5238	505.5238	3.6400e-003		505.6002
Worker	0.7164	0.8822	11.1773	0.0368	2.9062	0.0222	2.9284	0.7707	0.0206	0.7914		2,603.1990	2,603.1990	0.1153		2,605.6196
<b>Total</b>	<b>0.8726</b>	<b>2.1238</b>	<b>13.1984</b>	<b>0.0422</b>	<b>3.0625</b>	<b>0.0457</b>	<b>3.1082</b>	<b>0.8153</b>	<b>0.0422</b>	<b>0.8575</b>		<b>3,108.7228</b>	<b>3,108.7228</b>	<b>0.1189</b>		<b>3,111.2199</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	0.5970	2.7843	18.3521	0.0274		0.1134	0.1134		0.1134	0.1134	0.0000	2,601.0453	2,601.0453	0.7055		2,615.8614
<b>Total</b>	<b>0.5970</b>	<b>2.7843</b>	<b>18.3521</b>	<b>0.0274</b>		<b>0.1134</b>	<b>0.1134</b>		<b>0.1134</b>	<b>0.1134</b>	<b>0.0000</b>	<b>2,601.0453</b>	<b>2,601.0453</b>	<b>0.7055</b>		<b>2,615.8614</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	0.1562	1.2416	2.0211	5.4000e-003	0.1563	0.0235	0.1798	0.0445	0.0216	0.0661		505.5238	505.5238	3.6400e-003		505.6002
Worker	0.7164	0.8822	11.1773	0.0368	2.9062	0.0222	2.9284	0.7707	0.0206	0.7914		2,603.1990	2,603.1990	0.1153		2,605.6196
<b>Total</b>	<b>0.8726</b>	<b>2.1238</b>	<b>13.1984</b>	<b>0.0422</b>	<b>3.0625</b>	<b>0.0457</b>	<b>3.1082</b>	<b>0.8153</b>	<b>0.0422</b>	<b>0.8575</b>		<b>3,108.7228</b>	<b>3,108.7228</b>	<b>0.1189</b>		<b>3,111.2199</b>

### 3.5 Building Construction - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9687	17.5663	17.1570	0.0274		0.9165	0.9165		0.8570	0.8570		2,602.0604	2,602.0604	0.7024		2,616.8097
<b>Total</b>	<b>1.9687</b>	<b>17.5663</b>	<b>17.1570</b>	<b>0.0274</b>		<b>0.9165</b>	<b>0.9165</b>		<b>0.8570</b>	<b>0.8570</b>		<b>2,602.0604</b>	<b>2,602.0604</b>	<b>0.7024</b>		<b>2,616.8097</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	0.1530	1.1270	1.9744	5.3900e-003	0.1563	0.0232	0.1795	0.0445	0.0213	0.0659		505.0682	505.0682	3.7200e-003		505.1463
Worker	0.6785	0.8277	10.5258	0.0368	2.9062	0.0222	2.9284	0.7707	0.0206	0.7914		2,560.2825	2,560.2825	0.1104		2,562.6005
<b>Total</b>	<b>0.8315</b>	<b>1.9547</b>	<b>12.5002</b>	<b>0.0422</b>	<b>3.0625</b>	<b>0.0454</b>	<b>3.1079</b>	<b>0.8153</b>	<b>0.0420</b>	<b>0.8572</b>		<b>3,065.3508</b>	<b>3,065.3508</b>	<b>0.1141</b>		<b>3,067.7468</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	0.5711	2.7383	18.3291	0.0274		0.1031	0.1031		0.1031	0.1031	0.0000	2,602.0604	2,602.0604	0.7024		2,616.8097
<b>Total</b>	<b>0.5711</b>	<b>2.7383</b>	<b>18.3291</b>	<b>0.0274</b>		<b>0.1031</b>	<b>0.1031</b>		<b>0.1031</b>	<b>0.1031</b>	<b>0.0000</b>	<b>2,602.0604</b>	<b>2,602.0604</b>	<b>0.7024</b>		<b>2,616.8097</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	0.1530	1.1270	1.9744	5.3900e-003	0.1563	0.0232	0.1795	0.0445	0.0213	0.0659		505.0682	505.0682	3.7200e-003		505.1463
Worker	0.6785	0.8277	10.5258	0.0368	2.9062	0.0222	2.9284	0.7707	0.0206	0.7914		2,560.2825	2,560.2825	0.1104		2,562.6005
<b>Total</b>	<b>0.8315</b>	<b>1.9547</b>	<b>12.5002</b>	<b>0.0422</b>	<b>3.0625</b>	<b>0.0454</b>	<b>3.1079</b>	<b>0.8153</b>	<b>0.0420</b>	<b>0.8572</b>		<b>3,065.3508</b>	<b>3,065.3508</b>	<b>0.1141</b>		<b>3,067.7468</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8012	15.8790	17.0061	0.0274		0.7900	0.7900		0.7388	0.7388		2,602.8067	2,602.8067	0.6984		2,617.4735
<b>Total</b>	<b>1.8012</b>	<b>15.8790</b>	<b>17.0061</b>	<b>0.0274</b>		<b>0.7900</b>	<b>0.7900</b>		<b>0.7388</b>	<b>0.7388</b>		<b>2,602.8067</b>	<b>2,602.8067</b>	<b>0.6984</b>		<b>2,617.4735</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	0.1417	0.8991	1.8941	5.3700e-003	0.1563	0.0229	0.1792	0.0445	0.0211	0.0656		502.6492	502.6492	3.3400e-003		502.7193
Worker	0.6428	0.7794	9.9311	0.0368	2.9062	0.0222	2.9284	0.7707	0.0206	0.7913		2,521.1649	2,521.1649	0.1061		2,523.3920
<b>Total</b>	<b>0.7845</b>	<b>1.6785</b>	<b>11.8252</b>	<b>0.0422</b>	<b>3.0625</b>	<b>0.0451</b>	<b>3.1076</b>	<b>0.8153</b>	<b>0.0417</b>	<b>0.8569</b>		<b>3,023.8140</b>	<b>3,023.8140</b>	<b>0.1094</b>		<b>3,026.1113</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	0.5488	2.6960	18.3112	0.0274		0.0944	0.0944		0.0944	0.0944	0.0000	2,602.8067	2,602.8067	0.6984		2,617.4735
<b>Total</b>	<b>0.5488</b>	<b>2.6960</b>	<b>18.3112</b>	<b>0.0274</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>	<b>0.0000</b>	<b>2,602.8067</b>	<b>2,602.8067</b>	<b>0.6984</b>		<b>2,617.4735</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	0.1417	0.8991	1.8941	5.3700e-003	0.1563	0.0229	0.1792	0.0445	0.0211	0.0656		502.6492	502.6492	3.3400e-003		502.7193
Worker	0.6428	0.7794	9.9311	0.0368	2.9062	0.0222	2.9284	0.7707	0.0206	0.7913		2,521.1649	2,521.1649	0.1061		2,523.3920
<b>Total</b>	<b>0.7845</b>	<b>1.6785</b>	<b>11.8252</b>	<b>0.0422</b>	<b>3.0625</b>	<b>0.0451</b>	<b>3.1076</b>	<b>0.8153</b>	<b>0.0417</b>	<b>0.8569</b>		<b>3,023.8140</b>	<b>3,023.8140</b>	<b>0.1094</b>		<b>3,026.1113</b>

### 3.6 Paving 2 - 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	0.7839	7.3126	6.2273	8.9700e-003		0.4809	0.4809		0.4433	0.4433		855.0418	855.0418	0.2682		860.6744
Paving	0.0160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7999</b>	<b>7.3126</b>	<b>6.2273</b>	<b>8.9700e-003</b>		<b>0.4809</b>	<b>0.4809</b>		<b>0.4433</b>	<b>0.4433</b>		<b>855.0418</b>	<b>855.0418</b>	<b>0.2682</b>		<b>860.6744</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	0.0815	0.1016	1.2795	3.9500e-003	0.3130	2.3900e-003	0.3154	0.0830	2.2200e-003	0.0852		284.7146	284.7146	0.0130		284.9869
<b>Total</b>	<b>0.0815</b>	<b>0.1016</b>	<b>1.2795</b>	<b>3.9500e-003</b>	<b>0.3130</b>	<b>2.3900e-003</b>	<b>0.3154</b>	<b>0.0830</b>	<b>2.2200e-003</b>	<b>0.0852</b>		<b>284.7146</b>	<b>284.7146</b>	<b>0.0130</b>		<b>284.9869</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	0.1477	0.7251	6.6200	8.9700e-003		0.0246	0.0246		0.0246	0.0246	0.0000	855.0418	855.0418	0.2682		860.6744
Paving	0.0160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1637</b>	<b>0.7251</b>	<b>6.6200</b>	<b>8.9700e-003</b>		<b>0.0246</b>	<b>0.0246</b>		<b>0.0246</b>	<b>0.0246</b>	<b>0.0000</b>	<b>855.0418</b>	<b>855.0418</b>	<b>0.2682</b>		<b>860.6744</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	0.0815	0.1016	1.2795	3.9500e-003	0.3130	2.3900e-003	0.3154	0.0830	2.2200e-003	0.0852		284.7146	284.7146	0.0130		284.9869
<b>Total</b>	<b>0.0815</b>	<b>0.1016</b>	<b>1.2795</b>	<b>3.9500e-003</b>	<b>0.3130</b>	<b>2.3900e-003</b>	<b>0.3154</b>	<b>0.0830</b>	<b>2.2200e-003</b>	<b>0.0852</b>		<b>284.7146</b>	<b>284.7146</b>	<b>0.0130</b>		<b>284.9869</b>

### 3.7 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	27.0618					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.8329
<b>Total</b>	<b>27.2664</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.8329</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	0.1148	0.1401	1.7813	6.2300e-003	0.4918	3.7600e-003	0.4956	0.1304	3.4900e-003	0.1339		433.2786	433.2786	0.0187		433.6709
<b>Total</b>	<b>0.1148</b>	<b>0.1401</b>	<b>1.7813</b>	<b>6.2300e-003</b>	<b>0.4918</b>	<b>3.7600e-003</b>	<b>0.4956</b>	<b>0.1304</b>	<b>3.4900e-003</b>	<b>0.1339</b>		<b>433.2786</b>	<b>433.2786</b>	<b>0.0187</b>		<b>433.6709</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	27.0618					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.8329
<b>Total</b>	<b>27.0915</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.8329</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	0.1148	0.1401	1.7813	6.2300e-003	0.4918	3.7600e-003	0.4956	0.1304	3.4900e-003	0.1339		433.2786	433.2786	0.0187			433.6709
<b>Total</b>	<b>0.1148</b>	<b>0.1401</b>	<b>1.7813</b>	<b>6.2300e-003</b>	<b>0.4918</b>	<b>3.7600e-003</b>	<b>0.4956</b>	<b>0.1304</b>	<b>3.4900e-003</b>	<b>0.1339</b>		<b>433.2786</b>	<b>433.2786</b>	<b>0.0187</b>			<b>433.6709</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	27.0618					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168			281.8017
<b>Total</b>	<b>27.2535</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>			<b>281.8017</b>

**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	0.1088	0.1319	1.6807	6.2200e-003	0.4918	3.7600e-003	0.4956	0.1304	3.4900e-003	0.1339		426.6587	426.6587	0.0180			427.0356
<b>Total</b>	<b>0.1088</b>	<b>0.1319</b>	<b>1.6807</b>	<b>6.2200e-003</b>	<b>0.4918</b>	<b>3.7600e-003</b>	<b>0.4956</b>	<b>0.1304</b>	<b>3.4900e-003</b>	<b>0.1339</b>		<b>426.6587</b>	<b>426.6587</b>	<b>0.0180</b>			<b>427.0356</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	27.0618					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>27.0915</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</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	0.1088	0.1319	1.6807	6.2200e-003	0.4918	3.7600e-003	0.4956	0.1304	3.4900e-003	0.1339		426.6587	426.6587	0.0180		427.0356
<b>Total</b>	<b>0.1088</b>	<b>0.1319</b>	<b>1.6807</b>	<b>6.2200e-003</b>	<b>0.4918</b>	<b>3.7600e-003</b>	<b>0.4956</b>	<b>0.1304</b>	<b>3.4900e-003</b>	<b>0.1339</b>		<b>426.6587</b>	<b>426.6587</b>	<b>0.0180</b>		<b>427.0356</b>

### 3.8 Paving - 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	0.9590	9.3955	10.4173	0.0147		0.5631	0.5631		0.5180	0.5180		1,419.7572	1,419.7572	0.4592		1,429.4000
Paving	6.8600e-003					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000
<b>Total</b>	<b>0.9658</b>	<b>9.3955</b>	<b>10.4173</b>	<b>0.0147</b>		<b>0.5631</b>	<b>0.5631</b>		<b>0.5180</b>	<b>0.5180</b>		<b>1,419.7572</b>	<b>1,419.7572</b>	<b>0.4592</b>		<b>1,429.4000</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	0.0122	0.0902	0.1580	4.3000e-004	0.0125	1.8600e-003	0.0144	3.5600e-003	1.7100e-003	5.2700e-003		40.4055	40.4055	3.0000e-004		40.4117
Worker	0.1253	0.1528	1.9432	6.7900e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8100e-003	0.1461		472.6676	472.6676	0.0204		473.0955
<b>Total</b>	<b>0.1375</b>	<b>0.2430</b>	<b>2.1012</b>	<b>7.2200e-003</b>	<b>0.5490</b>	<b>5.9600e-003</b>	<b>0.5550</b>	<b>0.1459</b>	<b>5.5200e-003</b>	<b>0.1514</b>		<b>513.0730</b>	<b>513.0730</b>	<b>0.0207</b>		<b>513.5072</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	0.1796	0.7781	11.0728	0.0147		0.0239	0.0239		0.0239	0.0239	0.0000	1,419.7572	1,419.7572	0.4592		1,429.4000
Paving	6.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1864</b>	<b>0.7781</b>	<b>11.0728</b>	<b>0.0147</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0239</b>	<b>0.0239</b>	<b>0.0000</b>	<b>1,419.7572</b>	<b>1,419.7572</b>	<b>0.4592</b>		<b>1,429.4000</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	0.0122	0.0902	0.1580	4.3000e-004	0.0125	1.8600e-003	0.0144	3.5600e-003	1.7100e-003	5.2700e-003		40.4055	40.4055	3.0000e-004		40.4117
Worker	0.1253	0.1528	1.9432	6.7900e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8100e-003	0.1461		472.6676	472.6676	0.0204		473.0955
<b>Total</b>	<b>0.1375</b>	<b>0.2430</b>	<b>2.1012</b>	<b>7.2200e-003</b>	<b>0.5490</b>	<b>5.9600e-003</b>	<b>0.5550</b>	<b>0.1459</b>	<b>5.5200e-003</b>	<b>0.1514</b>		<b>513.0730</b>	<b>513.0730</b>	<b>0.0207</b>		<b>513.5072</b>

### 3.8 Paving - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8997	8.7790	10.3989	0.0147		0.5057	0.5057		0.4652	0.4652		1,420.6911	1,420.6911	0.4595		1,430.3401
Paving	6.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9065</b>	<b>8.7790</b>	<b>10.3989</b>	<b>0.0147</b>		<b>0.5057</b>	<b>0.5057</b>		<b>0.4652</b>	<b>0.4652</b>		<b>1,420.6911</b>	<b>1,420.6911</b>	<b>0.4595</b>		<b>1,430.3401</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	0.0113	0.0719	0.1515	4.3000e-004	0.0125	1.8300e-003	0.0143	3.5600e-003	1.6900e-003	5.2500e-003		40.2119	40.2119	2.7000e-004		40.2176
Worker	0.1187	0.1439	1.8334	6.7900e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8000e-003	0.1461		465.4458	465.4458	0.0196		465.8570
<b>Total</b>	<b>0.1300</b>	<b>0.2158</b>	<b>1.9850</b>	<b>7.2200e-003</b>	<b>0.5490</b>	<b>5.9300e-003</b>	<b>0.5550</b>	<b>0.1459</b>	<b>5.4900e-003</b>	<b>0.1513</b>		<b>505.6578</b>	<b>505.6578</b>	<b>0.0199</b>		<b>506.0745</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	0.1796	0.7781	11.0728	0.0147		0.0239	0.0239		0.0239	0.0239	0.0000	1,420.6911	1,420.6911	0.4595		1,430.3401
Paving	6.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1864</b>	<b>0.7781</b>	<b>11.0728</b>	<b>0.0147</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0239</b>	<b>0.0239</b>	<b>0.0000</b>	<b>1,420.6911</b>	<b>1,420.6911</b>	<b>0.4595</b>		<b>1,430.3401</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	0.0113	0.0719	0.1515	4.3000e-004	0.0125	1.8300e-003	0.0143	3.5600e-003	1.6900e-003	5.2500e-003		40.2119	40.2119	2.7000e-004			40.2176
Worker	0.1187	0.1439	1.8334	6.7900e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8000e-003	0.1461		465.4458	465.4458	0.0196			465.8570
<b>Total</b>	<b>0.1300</b>	<b>0.2158</b>	<b>1.9850</b>	<b>7.2200e-003</b>	<b>0.5490</b>	<b>5.9300e-003</b>	<b>0.5550</b>	<b>0.1459</b>	<b>5.4900e-003</b>	<b>0.1513</b>		<b>505.6578</b>	<b>505.6578</b>	<b>0.0199</b>			<b>506.0745</b>

## Harbor UCLA Master Plan- Phase C

### South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	29.20	1000sqft	0.67	29,200.00	0
General Light Industry	6.20	1000sqft	0.14	6,200.00	0
General Light Industry	54.72	1000sqft	1.26	54,720.00	0
Unrefrigerated Warehouse-No Rail	58.00	1000sqft	1.33	58,000.00	0
Parking Lot	24.00	Space	0.22	6,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2022
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Client Provided Information
- Construction Phase - Client Provided Information
- Off-road Equipment -
- Off-road Equipment - Client Provided Information
- Off-road Equipment - Client Provided Information
- Off-road Equipment - Client Provided Information



tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	127.00
tblConstructionPhase	NumDays	230.00	129.00
tblConstructionPhase	NumDays	230.00	911.00
tblConstructionPhase	NumDays	20.00	139.00
tblConstructionPhase	NumDays	8.00	652.00
tblConstructionPhase	NumDays	18.00	36.00
tblConstructionPhase	NumDays	18.00	84.00
tblConstructionPhase	PhaseEndDate	8/14/2020	3/28/2023
tblConstructionPhase	PhaseEndDate	9/27/2021	2/19/2020
tblConstructionPhase	PhaseEndDate	8/17/2023	3/28/2023
tblConstructionPhase	PhaseEndDate	9/9/2021	3/30/2021
tblConstructionPhase	PhaseEndDate	5/17/2023	2/19/2020
tblConstructionPhase	PhaseEndDate	7/24/2023	3/28/2023
tblConstructionPhase	PhaseStartDate	2/20/2020	10/1/2022
tblConstructionPhase	PhaseStartDate	3/31/2021	8/23/2019
tblConstructionPhase	PhaseStartDate	2/20/2020	10/1/2019
tblConstructionPhase	PhaseStartDate	3/13/2019	10/1/2018
tblConstructionPhase	PhaseStartDate	3/29/2023	1/1/2020
tblConstructionPhase	PhaseStartDate	3/29/2023	12/1/2022
tblGrading	MaterialExported	0.00	28,027.00
tblGrading	MaterialImported	0.00	10,851.00
tblLandUse	LandUseSquareFeet	9,600.00	6,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblTripsAndVMT	HaulingTripNumber	95.00	1,002.00
tblTripsAndVMT	HaulingTripNumber	4,860.00	6,480.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	25.00	27.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	80.00
tblTripsAndVMT	WorkerTripNumber	35.00	174.00
tblTripsAndVMT	WorkerTripNumber	62.00	233.00
tblTripsAndVMT	WorkerTripNumber	62.00	260.00
tblTripsAndVMT	WorkerTripNumber	10.00	28.00
tblTripsAndVMT	WorkerTripNumber	12.00	44.00
tblTripsAndVMT	WorkerTripNumber	13.00	48.00

## 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					
2018	10.4070	95.1799	81.7903	0.1463	11.1167	5.1749	16.2916	4.5398	4.8289	9.3687	0.0000	13,773.0249	13,773.0249	2.7956	0.0000	13,831.7324
2019	13.1281	105.5412	113.3864	0.2211	14.7348	5.6300	20.3648	5.5412	5.2690	10.8102	0.0000	19,476.0468	19,476.0468	3.2394	0.0000	19,544.0739
2020	12.9413	103.6841	116.9683	0.2337	15.0465	5.4618	20.5084	5.6239	5.1034	10.7273	0.0000	20,102.9441	20,102.9441	3.4765	0.0000	20,175.9511
2021	8.3145	68.0109	78.1898	0.1604	12.9932	3.3862	16.3795	5.0557	3.1614	8.2171	0.0000	13,882.9276	13,882.9276	2.5373	0.0000	13,936.2118
2022	31.3128	30.8433	44.9530	0.0974	4.1034	1.6166	5.7200	1.0915	1.5079	2.5994	0.0000	8,092.0433	8,092.0433	1.3335	0.0000	8,120.0457
2023	31.0114	28.1056	43.9298	0.0974	4.1034	1.4215	5.5249	1.0915	1.3257	2.4172	0.0000	8,041.0127	8,041.0127	1.3221	0.0000	8,068.7761
<b>Total</b>	<b>107.1150</b>	<b>431.3650</b>	<b>479.2176</b>	<b>0.9562</b>	<b>62.0979</b>	<b>22.6912</b>	<b>84.7891</b>	<b>22.9437</b>	<b>21.1962</b>	<b>44.1399</b>	<b>0.0000</b>	<b>83,367.9994</b>	<b>83,367.9994</b>	<b>14.7044</b>	<b>0.0000</b>	<b>83,676.7910</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					
2018	2.7985	12.5761	80.5499	0.1463	7.0255	0.3641	7.3896	2.4714	0.3563	2.8276	0.0000	13,773.0249	13,773.0249	2.7956	0.0000	13,831.7323
2019	5.1352	19.5878	112.1497	0.2211	10.7337	0.6387	11.3724	3.4864	0.6263	4.1127	0.0000	19,476.0468	19,476.0468	3.2394	0.0000	19,544.0739
2020	5.0954	19.3195	117.5394	0.2337	11.0455	0.6211	11.6666	3.5691	0.6090	4.1781	0.0000	20,102.9441	20,102.9441	3.4765	0.0000	20,175.9511
2021	3.1725	12.2066	79.0742	0.1604	8.9922	0.3843	9.3765	3.0009	0.3764	3.3772	0.0000	13,882.9276	13,882.9276	2.5373	0.0000	13,936.2118
2022	28.9609	6.1182	46.7994	0.0974	4.1034	0.1864	4.2897	1.0915	0.1822	1.2737	0.0000	8,092.0433	8,092.0433	1.3335	0.0000	8,120.0457
2023	28.8769	5.7475	45.9302	0.0974	4.1034	0.1773	4.2806	1.0915	0.1731	1.2646	0.0000	8,041.0127	8,041.0127	1.3221	0.0000	8,068.7761

Total	74.0394	75.5555	482.0429	0.9562	46.0036	2.3718	48.3754	14.7109	2.3232	17.0341	0.0000	83,367.99 93	83,367.999 3	14.7044	0.0000	83,676.79 09
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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	30.88	82.48	-0.59	0.00	25.92	89.55	42.95	35.88	89.04	61.41	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/30/2018	3/12/2019	5	139	
2	Grading	Grading	10/1/2018	3/30/2021	5	652	
3	SCE SY	Building Construction	8/23/2019	2/19/2020	5	129	
4	Building Construction	Building Construction	10/1/2019	3/28/2023	5	911	
5	Paving 2	Paving	1/1/2020	2/19/2020	5	36	
6	Architectural Coating	Architectural Coating	10/1/2022	3/28/2023	5	127	
7	Paving	Paving	12/1/2022	3/28/2023	5	84	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 326

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 222,450; Non-Residential Outdoor: 74,150 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Graders	1	8.00	174	0.41
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Demolition	Rubber Tired Loaders	1	8.00	199	0.36

Demolition	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Cranes	1	8.00	226	0.29
Grading	Excavators	1	8.00	162	0.38
Grading	Forklifts	1	8.00	89	0.20
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Tractors/Loaders/Backhoes	5	8.00	97	0.37
Grading	Welders	1	8.00	46	0.45
SCE SY	Cement and Mortar Mixers	1	8.00	9	0.56
SCE SY	Cranes	0	7.00	226	0.29
SCE SY	Forklifts	0	8.00	89	0.20
SCE SY	Generator Sets	1	8.00	84	0.74
SCE SY	Graders	1	8.00	174	0.41
SCE SY	Tractors/Loaders/Backhoes	3	7.00	97	0.37
SCE SY	Welders	1	8.00	46	0.45
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Graders	1	8.00	174	0.41
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 2	Cement and Mortar Mixers	1	6.00	9	0.56
Paving 2	Pavers	0	8.00	125	0.42
Paving 2	Paving Equipment	1	6.00	130	0.36
Paving 2	Rollers	1	6.00	80	0.38
Paving 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Paving 2	Trenchers	1	8.00	80	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	1	6.00	130	0.36
Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	80	0.50

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	80.00	4.00	1,002.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	14	174.00	4.00	6,480.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
SCE SY	7	233.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	260.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	4	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	48.00	2.00	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

Clean Paved Roads

### 3.2 Demolition - 2018

#### 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					0.1478	0.0000	0.1478	0.0224	0.0000	0.0224			0.0000			0.0000
Off-Road	3.1337	31.1382	22.7983	0.0363		1.8103	1.8103		1.6869	1.6869		3,618.7891	3,618.7891	0.9880		3,639.5362
<b>Total</b>	<b>3.1337</b>	<b>31.1382</b>	<b>22.7983</b>	<b>0.0363</b>	<b>0.1478</b>	<b>1.8103</b>	<b>1.9581</b>	<b>0.0224</b>	<b>1.6869</b>	<b>1.7092</b>		<b>3,618.7891</b>	<b>3,618.7891</b>	<b>0.9880</b>		<b>3,639.5362</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	0.1204	1.7609	1.5206	5.3000e-003	0.1809	0.0283	0.2091	0.0480	0.0260	0.0740		517.5820	517.5820	3.8700e-003		517.6633
Vendor	0.0313	0.2975	0.4363	8.6000e-004	0.0250	4.7900e-003	0.0298	7.1200e-003	4.4100e-003	0.0115		83.7162	83.7162	6.2000e-004		83.7293
Worker	0.2747	0.3746	3.9040	0.0106	0.8942	7.0000e-003	0.9012	0.2372	6.4800e-003	0.2436		826.2281	826.2281	0.0418		827.1057
<b>Total</b>	<b>0.4264</b>	<b>2.4331</b>	<b>5.8608</b>	<b>0.0168</b>	<b>1.1001</b>	<b>0.0401</b>	<b>1.1402</b>	<b>0.2922</b>	<b>0.0369</b>	<b>0.3292</b>		<b>1,427.5264</b>	<b>1,427.5264</b>	<b>0.0463</b>		<b>1,428.4983</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0576	0.0000	0.0576	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	0.4309	1.8674	24.6793	0.0363		0.0575	0.0575		0.0575	0.0575	0.0000	3,618.7891	3,618.7891	0.9880		3,639.5362
<b>Total</b>	<b>0.4309</b>	<b>1.8674</b>	<b>24.6793</b>	<b>0.0363</b>	<b>0.0576</b>	<b>0.0575</b>	<b>0.1151</b>	<b>8.7300e-003</b>	<b>0.0575</b>	<b>0.0662</b>	<b>0.0000</b>	<b>3,618.7891</b>	<b>3,618.7891</b>	<b>0.9880</b>		<b>3,639.5362</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	0.1204	1.7609	1.5206	5.3000e-003	0.1809	0.0283	0.2091	0.0480	0.0260	0.0740		517.5820	517.5820	3.8700e-003		517.6633
Vendor	0.0313	0.2975	0.4363	8.6000e-004	0.0250	4.7900e-003	0.0298	7.1200e-003	4.4100e-003	0.0115		83.7162	83.7162	6.2000e-004		83.7293
Worker	0.2747	0.3746	3.9040	0.0106	0.8942	7.0000e-003	0.9012	0.2372	6.4800e-003	0.2436		826.2281	826.2281	0.0418		827.1057
<b>Total</b>	<b>0.4264</b>	<b>2.4331</b>	<b>5.8608</b>	<b>0.0168</b>	<b>1.1001</b>	<b>0.0401</b>	<b>1.1402</b>	<b>0.2922</b>	<b>0.0369</b>	<b>0.3292</b>		<b>1,427.5264</b>	<b>1,427.5264</b>	<b>0.0463</b>		<b>1,428.4983</b>

### 3.2 Demolition - 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					0.1478	0.0000	0.1478	0.0224	0.0000	0.0224			0.0000			0.0000
Off-Road	2.8175	27.9854	22.5043	0.0363		1.5682	1.5682		1.4611	1.4611		3,568.8344	3,568.8344	0.9833		3,589.4846
<b>Total</b>	<b>2.8175</b>	<b>27.9854</b>	<b>22.5043</b>	<b>0.0363</b>	<b>0.1478</b>	<b>1.5682</b>	<b>1.7160</b>	<b>0.0224</b>	<b>1.4611</b>	<b>1.4835</b>		<b>3,568.8344</b>	<b>3,568.8344</b>	<b>0.9833</b>		<b>3,589.4846</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	0.1170	1.6461	1.4954	5.2800e-003	0.2901	0.0283	0.3184	0.0748	0.0260	0.1008		507.4906	507.4906	3.8500e-003		507.5714
Vendor	0.0296	0.2743	0.4219	8.6000e-004	0.0250	4.5400e-003	0.0296	7.1200e-003	4.1800e-003	0.0113		82.0817	82.0817	6.1000e-004		82.0945
Worker	0.2526	0.3435	3.5780	0.0106	0.8942	6.8800e-003	0.9011	0.2372	6.3800e-003	0.2435		794.7735	794.7735	0.0391		795.5950
<b>Total</b>	<b>0.3991</b>	<b>2.2639</b>	<b>5.4953</b>	<b>0.0167</b>	<b>1.2093</b>	<b>0.0397</b>	<b>1.2490</b>	<b>0.3190</b>	<b>0.0366</b>	<b>0.3556</b>		<b>1,384.3458</b>	<b>1,384.3458</b>	<b>0.0436</b>		<b>1,385.2609</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0576	0.0000	0.0576	8.7300e-003	0.0000	8.7300e-003			0.0000				0.0000
Off-Road	0.4309	1.8674	24.6793	0.0363		0.0575	0.0575		0.0575	0.0575	0.0000	3,568.8344	3,568.8344	0.9833			3,589.4846
<b>Total</b>	<b>0.4309</b>	<b>1.8674</b>	<b>24.6793</b>	<b>0.0363</b>	<b>0.0576</b>	<b>0.0575</b>	<b>0.1151</b>	<b>8.7300e-003</b>	<b>0.0575</b>	<b>0.0662</b>	<b>0.0000</b>	<b>3,568.8344</b>	<b>3,568.8344</b>	<b>0.9833</b>			<b>3,589.4846</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	0.1170	1.6461	1.4954	5.2800e-003	0.2901	0.0283	0.3184	0.0748	0.0260	0.1008		507.4906	507.4906	3.8500e-003			507.5714
Vendor	0.0296	0.2743	0.4219	8.6000e-004	0.0250	4.5400e-003	0.0296	7.1200e-003	4.1800e-003	0.0113		82.0817	82.0817	6.1000e-004			82.0945
Worker	0.2526	0.3435	3.5780	0.0106	0.8942	6.8800e-003	0.9011	0.2372	6.3800e-003	0.2435		794.7735	794.7735	0.0391			795.5950
<b>Total</b>	<b>0.3991</b>	<b>2.2639</b>	<b>5.4953</b>	<b>0.0167</b>	<b>1.2093</b>	<b>0.0397</b>	<b>1.2490</b>	<b>0.3190</b>	<b>0.0366</b>	<b>0.3556</b>		<b>1,384.3458</b>	<b>1,384.3458</b>	<b>0.0436</b>			<b>1,385.2609</b>

## 3.3 Grading - 2018

### 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					6.5591	0.0000	6.5591	3.3685	0.0000	3.3685			0.0000				0.0000
Off-Road	6.0522	58.0685	42.1073	0.0620		3.2655	3.2655		3.0507	3.0507		6,132.3490	6,132.3490	1.6645			6,167.3036
<b>Total</b>	<b>6.0522</b>	<b>58.0685</b>	<b>42.1073</b>	<b>0.0620</b>	<b>6.5591</b>	<b>3.2655</b>	<b>9.8245</b>	<b>3.3685</b>	<b>3.0507</b>	<b>6.4192</b>		<b>6,132.3490</b>	<b>6,132.3490</b>	<b>1.6645</b>			<b>6,167.3036</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	0.1660	2.4278	2.0964	7.3100e-003	1.3399	0.0390	1.3789	0.3338	0.0359	0.3697		713.5981	713.5981	5.3400e-003		713.7102
Vendor	0.0313	0.2975	0.4363	8.6000e-004	0.0250	4.7900e-003	0.0298	7.1200e-003	4.4100e-003	0.0115		83.7162	83.7162	6.2000e-004		83.7293
Worker	0.5974	0.8148	8.4912	0.0231	1.9449	0.0152	1.9601	0.5158	0.0141	0.5299		1,797.0462	1,797.0462	0.0909		1,798.9549
<b>Total</b>	<b>0.7947</b>	<b>3.5401</b>	<b>11.0239</b>	<b>0.0312</b>	<b>3.3098</b>	<b>0.0590</b>	<b>3.3688</b>	<b>0.8567</b>	<b>0.0544</b>	<b>0.9111</b>		<b>2,594.3605</b>	<b>2,594.3605</b>	<b>0.0969</b>		<b>2,596.3943</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					2.5580	0.0000	2.5580	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	1.1464	4.7355	38.9859	0.0620		0.2075	0.2075		0.2075	0.2075	0.0000	6,132.3490	6,132.3490	1.6645		6,167.3036
<b>Total</b>	<b>1.1464</b>	<b>4.7355</b>	<b>38.9859</b>	<b>0.0620</b>	<b>2.5580</b>	<b>0.2075</b>	<b>2.7655</b>	<b>1.3137</b>	<b>0.2075</b>	<b>1.5212</b>	<b>0.0000</b>	<b>6,132.3490</b>	<b>6,132.3490</b>	<b>1.6645</b>		<b>6,167.3036</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	0.1660	2.4278	2.0964	7.3100e-003	1.3399	0.0390	1.3789	0.3338	0.0359	0.3697		713.5981	713.5981	5.3400e-003		713.7102
Vendor	0.0313	0.2975	0.4363	8.6000e-004	0.0250	4.7900e-003	0.0298	7.1200e-003	4.4100e-003	0.0115		83.7162	83.7162	6.2000e-004		83.7293
Worker	0.5974	0.8148	8.4912	0.0231	1.9449	0.0152	1.9601	0.5158	0.0141	0.5299		1,797.0462	1,797.0462	0.0909		1,798.9549
<b>Total</b>	<b>0.7947</b>	<b>3.5401</b>	<b>11.0239</b>	<b>0.0312</b>	<b>3.3098</b>	<b>0.0590</b>	<b>3.3688</b>	<b>0.8567</b>	<b>0.0544</b>	<b>0.9111</b>		<b>2,594.3605</b>	<b>2,594.3605</b>	<b>0.0969</b>		<b>2,596.3943</b>

### 3.3 Grading - 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					6.5591	0.0000	6.5591	3.3685	0.0000	3.3685			0.0000			0.0000
Off-Road	5.4730	52.7512	41.0396	0.0620		2.8642	2.8642		2.6751	2.6751		6,051.4704	6,051.4704	1.6508		6,086.1378
<b>Total</b>	<b>5.4730</b>	<b>52.7512</b>	<b>41.0396</b>	<b>0.0620</b>	<b>6.5591</b>	<b>2.8642</b>	<b>9.4233</b>	<b>3.3685</b>	<b>2.6751</b>	<b>6.0436</b>		<b>6,051.4704</b>	<b>6,051.4704</b>	<b>1.6508</b>		<b>6,086.1378</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	0.1613	2.2696	2.0618	7.2800e-003	0.3701	0.0390	0.4091	0.0958	0.0359	0.1316		699.6849	699.6849	5.3100e-003		699.7963
Vendor	0.0296	0.2743	0.4219	8.6000e-004	0.0250	4.5400e-003	0.0296	7.1200e-003	4.1800e-003	0.0113		82.0817	82.0817	6.1000e-004		82.0945
Worker	0.5493	0.7472	7.7820	0.0230	1.9449	0.0150	1.9599	0.5158	0.0139	0.5297		1,728.6324	1,728.6324	0.0851		1,730.4191
<b>Total</b>	<b>0.7402</b>	<b>3.2910</b>	<b>10.2657</b>	<b>0.0312</b>	<b>2.3400</b>	<b>0.0585</b>	<b>2.3985</b>	<b>0.6187</b>	<b>0.0539</b>	<b>0.6726</b>		<b>2,510.3989</b>	<b>2,510.3989</b>	<b>0.0910</b>		<b>2,512.3099</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					2.5580	0.0000	2.5580	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	1.0898	4.6778	38.9341	0.0620		0.1936	0.1936		0.1936	0.1936	0.0000	6,051.4704	6,051.4704	1.6508		6,086.1378
<b>Total</b>	<b>1.0898</b>	<b>4.6778</b>	<b>38.9341</b>	<b>0.0620</b>	<b>2.5580</b>	<b>0.1936</b>	<b>2.7517</b>	<b>1.3137</b>	<b>0.1936</b>	<b>1.5073</b>	<b>0.0000</b>	<b>6,051.4704</b>	<b>6,051.4704</b>	<b>1.6508</b>		<b>6,086.1378</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	0.1613	2.2696	2.0618	7.2800e-003	0.3701	0.0390	0.4091	0.0958	0.0359	0.1316		699.6849	699.6849	5.3100e-003		699.7963
Vendor	0.0296	0.2743	0.4219	8.6000e-004	0.0250	4.5400e-003	0.0296	7.1200e-003	4.1800e-003	0.0113		82.0817	82.0817	6.1000e-004		82.0945
Worker	0.5493	0.7472	7.7820	0.0230	1.9449	0.0150	1.9599	0.5158	0.0139	0.5297		1,728.6324	1,728.6324	0.0851		1,730.4191
<b>Total</b>	<b>0.7402</b>	<b>3.2910</b>	<b>10.2657</b>	<b>0.0312</b>	<b>2.3400</b>	<b>0.0585</b>	<b>2.3985</b>	<b>0.6187</b>	<b>0.0539</b>	<b>0.6726</b>		<b>2,510.3989</b>	<b>2,510.3989</b>	<b>0.0910</b>		<b>2,512.3099</b>

### 3.3 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5591	0.0000	6.5591	3.3685	0.0000	3.3685			0.0000			0.0000
Off-Road	5.0116	48.1159	39.9895	0.0620		2.5303	2.5303		2.3625	2.3625		5,944.5397	5,944.5397	1.6397		5,978.9734
<b>Total</b>	<b>5.0116</b>	<b>48.1159</b>	<b>39.9895</b>	<b>0.0620</b>	<b>6.5591</b>	<b>2.5303</b>	<b>9.0894</b>	<b>3.3685</b>	<b>2.3625</b>	<b>5.7310</b>		<b>5,944.5397</b>	<b>5,944.5397</b>	<b>1.6397</b>		<b>5,978.9734</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	0.1580	2.0233	2.0361	7.2800e-003	0.3688	0.0387	0.4075	0.0955	0.0356	0.1310		683.9275	683.9275	5.3100e-003		684.0391
Vendor	0.0280	0.2393	0.4097	8.6000e-004	0.0250	4.1500e-003	0.0292	7.1200e-003	3.8200e-003	0.0110		80.2319	80.2319	6.0000e-004		80.2445
Worker	0.5148	0.6924	7.2400	0.0230	1.9449	0.0149	1.9598	0.5158	0.0138	0.5296		1,658.3910	1,658.3910	0.0806		1,660.0833
<b>Total</b>	<b>0.7008</b>	<b>2.9550</b>	<b>9.6858</b>	<b>0.0312</b>	<b>2.3387</b>	<b>0.0577</b>	<b>2.3964</b>	<b>0.6184</b>	<b>0.0532</b>	<b>0.6716</b>		<b>2,422.5504</b>	<b>2,422.5504</b>	<b>0.0865</b>		<b>2,424.3668</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					2.5580	0.0000	2.5580	1.3137	0.0000	1.3137			0.0000				0.0000
Off-Road	1.0468	4.6249	38.8939	0.0620		0.1809	0.1809		0.1809	0.1809	0.0000	5,944.5397	5,944.5397	1.6397			5,978.9734
<b>Total</b>	<b>1.0468</b>	<b>4.6249</b>	<b>38.8939</b>	<b>0.0620</b>	<b>2.5580</b>	<b>0.1809</b>	<b>2.7389</b>	<b>1.3137</b>	<b>0.1809</b>	<b>1.4946</b>	<b>0.0000</b>	<b>5,944.5397</b>	<b>5,944.5397</b>	<b>1.6397</b>			<b>5,978.9734</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	0.1580	2.0233	2.0361	7.2800e-003	0.3688	0.0387	0.4075	0.0955	0.0356	0.1310		683.9275	683.9275	5.3100e-003			684.0391
Vendor	0.0280	0.2393	0.4097	8.6000e-004	0.0250	4.1500e-003	0.0292	7.1200e-003	3.8200e-003	0.0110		80.2319	80.2319	6.0000e-004			80.2445
Worker	0.5148	0.6924	7.2400	0.0230	1.9449	0.0149	1.9598	0.5158	0.0138	0.5296		1,658.3910	1,658.3910	0.0806			1,660.0833
<b>Total</b>	<b>0.7008</b>	<b>2.9550</b>	<b>9.6858</b>	<b>0.0312</b>	<b>2.3387</b>	<b>0.0577</b>	<b>2.3964</b>	<b>0.6184</b>	<b>0.0532</b>	<b>0.6716</b>		<b>2,422.5504</b>	<b>2,422.5504</b>	<b>0.0865</b>			<b>2,424.3668</b>

### 3.3 Grading - 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						
Fugitive Dust					6.5591	0.0000	6.5591	3.3685	0.0000	3.3685			0.0000				0.0000
Off-Road	4.5416	43.2104	38.8948	0.0620		2.1984	2.1984		2.0524	2.0524		5,944.5177	5,944.5177	1.6296			5,978.7395
<b>Total</b>	<b>4.5416</b>	<b>43.2104</b>	<b>38.8948</b>	<b>0.0620</b>	<b>6.5591</b>	<b>2.1984</b>	<b>8.7575</b>	<b>3.3685</b>	<b>2.0524</b>	<b>5.4209</b>		<b>5,944.5177</b>	<b>5,944.5177</b>	<b>1.6296</b>			<b>5,978.7395</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	0.1570	1.7721	2.0194	7.2700e-003	1.4017	0.0383	1.4401	0.3490	0.0353	0.3843		683.6823	683.6823	5.4100e-003		683.7961
Vendor	0.0271	0.2032	0.3999	8.6000e-004	0.0250	3.7800e-003	0.0288	7.1200e-003	3.4800e-003	0.0106		80.1975	80.1975	6.0000e-004		80.2102
Worker	0.4871	0.6473	6.7988	0.0231	1.9449	0.0149	1.9598	0.5158	0.0138	0.5296		1,632.6534	1,632.6534	0.0771		1,634.2734
<b>Total</b>	<b>0.6712</b>	<b>2.6226</b>	<b>9.2180</b>	<b>0.0312</b>	<b>3.3716</b>	<b>0.0570</b>	<b>3.4287</b>	<b>0.8719</b>	<b>0.0526</b>	<b>0.9245</b>		<b>2,396.5333</b>	<b>2,396.5333</b>	<b>0.0832</b>		<b>2,398.2796</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					2.5580	0.0000	2.5580	1.3137	0.0000	1.3137			0.0000			0.0000
Off-Road	1.0073	4.5625	38.8457	0.0620		0.1681	0.1681		0.1681	0.1681	0.0000	5,944.5177	5,944.5177	1.6296		5,978.7395
<b>Total</b>	<b>1.0073</b>	<b>4.5625</b>	<b>38.8457</b>	<b>0.0620</b>	<b>2.5580</b>	<b>0.1681</b>	<b>2.7261</b>	<b>1.3137</b>	<b>0.1681</b>	<b>1.4818</b>	<b>0.0000</b>	<b>5,944.5177</b>	<b>5,944.5177</b>	<b>1.6296</b>		<b>5,978.7395</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	0.1570	1.7721	2.0194	7.2700e-003	1.4017	0.0383	1.4401	0.3490	0.0353	0.3843		683.6823	683.6823	5.4100e-003		683.7961
Vendor	0.0271	0.2032	0.3999	8.6000e-004	0.0250	3.7800e-003	0.0288	7.1200e-003	3.4800e-003	0.0106		80.1975	80.1975	6.0000e-004		80.2102
Worker	0.4871	0.6473	6.7988	0.0231	1.9449	0.0149	1.9598	0.5158	0.0138	0.5296		1,632.6534	1,632.6534	0.0771		1,634.2734
<b>Total</b>	<b>0.6712</b>	<b>2.6226</b>	<b>9.2180</b>	<b>0.0312</b>	<b>3.3716</b>	<b>0.0570</b>	<b>3.4287</b>	<b>0.8719</b>	<b>0.0526</b>	<b>0.9245</b>		<b>2,396.5333</b>	<b>2,396.5333</b>	<b>0.0832</b>		<b>2,398.2796</b>

### 3.4 SCE SY - 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					
Off-Road	2.2651	19.4723	16.4830	0.0242		1.1729	1.1729		1.1063	1.1063		2,303.6494	2,303.6494	0.5295		2,314.7689
<b>Total</b>	<b>2.2651</b>	<b>19.4723</b>	<b>16.4830</b>	<b>0.0242</b>		<b>1.1729</b>	<b>1.1729</b>		<b>1.1063</b>	<b>1.1063</b>		<b>2,303.6494</b>	<b>2,303.6494</b>	<b>0.5295</b>		<b>2,314.7689</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	0.1996	1.8514	2.8480	5.8000e-003	0.1688	0.0307	0.1995	0.0481	0.0282	0.0763		554.0517	554.0517	4.1200e-003		554.1382
Worker	0.7356	1.0005	10.4208	0.0308	2.6044	0.0200	2.6244	0.6907	0.0186	0.7093		2,314.7778	2,314.7778	0.1139		2,317.1704
<b>Total</b>	<b>0.9352</b>	<b>2.8519</b>	<b>13.2688</b>	<b>0.0366</b>	<b>2.7732</b>	<b>0.0507</b>	<b>2.8239</b>	<b>0.7388</b>	<b>0.0468</b>	<b>0.7856</b>		<b>2,868.8295</b>	<b>2,868.8295</b>	<b>0.1181</b>		<b>2,871.3085</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	0.6849	3.0367	16.9753	0.0242		0.1462	0.1462		0.1462	0.1462	0.0000	2,303.6494	2,303.6494	0.5295		2,314.7689
<b>Total</b>	<b>0.6849</b>	<b>3.0367</b>	<b>16.9753</b>	<b>0.0242</b>		<b>0.1462</b>	<b>0.1462</b>		<b>0.1462</b>	<b>0.1462</b>	<b>0.0000</b>	<b>2,303.6494</b>	<b>2,303.6494</b>	<b>0.5295</b>		<b>2,314.7689</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	0.1996	1.8514	2.8480	5.8000e-003	0.1688	0.0307	0.1995	0.0481	0.0282	0.0763		554.0517	554.0517	4.1200e-003		554.1382
Worker	0.7356	1.0005	10.4208	0.0308	2.6044	0.0200	2.6244	0.6907	0.0186	0.7093		2,314.7778	2,314.7778	0.1139		2,317.1704
<b>Total</b>	<b>0.9352</b>	<b>2.8519</b>	<b>13.2688</b>	<b>0.0366</b>	<b>2.7732</b>	<b>0.0507</b>	<b>2.8239</b>	<b>0.7388</b>	<b>0.0468</b>	<b>0.7856</b>		<b>2,868.8295</b>	<b>2,868.8295</b>	<b>0.1181</b>		<b>2,871.3085</b>

**3.4 SCE SY - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0629	17.9027	16.3213	0.0242		1.0351	1.0351		0.9761	0.9761		2,272.0268	2,272.0268	0.5209		2,282.9651
<b>Total</b>	<b>2.0629</b>	<b>17.9027</b>	<b>16.3213</b>	<b>0.0242</b>		<b>1.0351</b>	<b>1.0351</b>		<b>0.9761</b>	<b>0.9761</b>		<b>2,272.0268</b>	<b>2,272.0268</b>	<b>0.5209</b>		<b>2,282.9651</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	0.1892	1.6152	2.7654	5.7900e-003	0.1688	0.0280	0.1969	0.0481	0.0258	0.0739		541.5653	541.5653	4.0400e-003		541.6500
Worker	0.6894	0.9272	9.6949	0.0308	2.6044	0.0199	2.6243	0.6907	0.0185	0.7092		2,220.7190	2,220.7190	0.1079		2,222.9851
<b>Total</b>	<b>0.8786</b>	<b>2.5424</b>	<b>12.4603</b>	<b>0.0366</b>	<b>2.7732</b>	<b>0.0480</b>	<b>2.8212</b>	<b>0.7388</b>	<b>0.0443</b>	<b>0.7830</b>		<b>2,762.2843</b>	<b>2,762.2843</b>	<b>0.1120</b>		<b>2,764.6351</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	0.6418	2.9837	16.9352	0.0242		0.1333	0.1333		0.1333	0.1333	0.0000	2,272.0268	2,272.0268	0.5209		2,282.9651
<b>Total</b>	<b>0.6418</b>	<b>2.9837</b>	<b>16.9352</b>	<b>0.0242</b>		<b>0.1333</b>	<b>0.1333</b>		<b>0.1333</b>	<b>0.1333</b>	<b>0.0000</b>	<b>2,272.0268</b>	<b>2,272.0268</b>	<b>0.5209</b>		<b>2,282.9651</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	0.1892	1.6152	2.7654	5.7900e-003	0.1688	0.0280	0.1969	0.0481	0.0258	0.0739		541.5653	541.5653	4.0400e-003		541.6500
Worker	0.6894	0.9272	9.6949	0.0308	2.6044	0.0199	2.6243	0.6907	0.0185	0.7092		2,220.7190	2,220.7190	0.1079		2,222.9851
<b>Total</b>	<b>0.8786</b>	<b>2.5424</b>	<b>12.4603</b>	<b>0.0366</b>	<b>2.7732</b>	<b>0.0480</b>	<b>2.8212</b>	<b>0.7388</b>	<b>0.0443</b>	<b>0.7830</b>		<b>2,762.2843</b>	<b>2,762.2843</b>	<b>0.1120</b>		<b>2,764.6351</b>

## 3.5 Building Construction - 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					
Off-Road	2.7090	24.3441	18.0639	0.0273		1.4330	1.4330		1.3401	1.3401		2,645.6739	2,645.6739	0.7191		2,660.7743
<b>Total</b>	<b>2.7090</b>	<b>24.3441</b>	<b>18.0639</b>	<b>0.0273</b>		<b>1.4330</b>	<b>1.4330</b>		<b>1.3401</b>	<b>1.3401</b>		<b>2,645.6739</b>	<b>2,645.6739</b>	<b>0.7191</b>		<b>2,660.7743</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	0.1848	1.7143	2.6371	5.3700e-003	0.1563	0.0284	0.1847	0.0445	0.0261	0.0706		513.0108	513.0108	3.8100e-003			513.0909
Worker	0.8209	1.1165	11.6283	0.0344	2.9062	0.0224	2.9285	0.7707	0.0207	0.7915		2,583.0139	2,583.0139	0.1271			2,585.6837
<b>Total</b>	<b>1.0056</b>	<b>2.8307</b>	<b>14.2654</b>	<b>0.0398</b>	<b>3.0625</b>	<b>0.0507</b>	<b>3.1132</b>	<b>0.8153</b>	<b>0.0468</b>	<b>0.8621</b>		<b>3,096.0247</b>	<b>3,096.0247</b>	<b>0.1309</b>			<b>3,098.7745</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	0.6795	2.8997	18.4405	0.0273		0.1389	0.1389		0.1389	0.1389	0.0000	2,645.6739	2,645.6739	0.7191			2,660.7743
<b>Total</b>	<b>0.6795</b>	<b>2.8997</b>	<b>18.4405</b>	<b>0.0273</b>		<b>0.1389</b>	<b>0.1389</b>		<b>0.1389</b>	<b>0.1389</b>	<b>0.0000</b>	<b>2,645.6739</b>	<b>2,645.6739</b>	<b>0.7191</b>			<b>2,660.7743</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	0.1848	1.7143	2.6371	5.3700e-003	0.1563	0.0284	0.1847	0.0445	0.0261	0.0706		513.0108	513.0108	3.8100e-003			513.0909
Worker	0.8209	1.1165	11.6283	0.0344	2.9062	0.0224	2.9285	0.7707	0.0207	0.7915		2,583.0139	2,583.0139	0.1271			2,585.6837
<b>Total</b>	<b>1.0056</b>	<b>2.8307</b>	<b>14.2654</b>	<b>0.0398</b>	<b>3.0625</b>	<b>0.0507</b>	<b>3.1132</b>	<b>0.8153</b>	<b>0.0468</b>	<b>0.8621</b>		<b>3,096.0247</b>	<b>3,096.0247</b>	<b>0.1309</b>			<b>3,098.7745</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4601	22.2140	17.7403	0.0273		1.2594	1.2594		1.1774	1.1774		2,600.1286	2,600.1286	0.7122		2,615.0845
<b>Total</b>	<b>2.4601</b>	<b>22.2140</b>	<b>17.7403</b>	<b>0.0273</b>		<b>1.2594</b>	<b>1.2594</b>		<b>1.1774</b>	<b>1.1774</b>		<b>2,600.1286</b>	<b>2,600.1286</b>	<b>0.7122</b>		<b>2,615.0845</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	0.1752	1.4956	2.5605	5.3600e-003	0.1563	0.0260	0.1823	0.0445	0.0239	0.0684		501.4493	501.4493	3.7400e-003		501.5278
Worker	0.7693	1.0346	10.8184	0.0344	2.9062	0.0222	2.9284	0.7707	0.0206	0.7913		2,478.0556	2,478.0556	0.1204		2,480.5842
<b>Total</b>	<b>0.9445</b>	<b>2.5302</b>	<b>13.3789</b>	<b>0.0397</b>	<b>3.0625</b>	<b>0.0482</b>	<b>3.1107</b>	<b>0.8153</b>	<b>0.0445</b>	<b>0.8597</b>		<b>2,979.5049</b>	<b>2,979.5049</b>	<b>0.1242</b>		<b>2,982.1120</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	0.6364	2.8468	18.4003	0.0273		0.1261	0.1261		0.1261	0.1261	0.0000	2,600.1286	2,600.1286	0.7122		2,615.0845
<b>Total</b>	<b>0.6364</b>	<b>2.8468</b>	<b>18.4003</b>	<b>0.0273</b>		<b>0.1261</b>	<b>0.1261</b>		<b>0.1261</b>	<b>0.1261</b>	<b>0.0000</b>	<b>2,600.1286</b>	<b>2,600.1286</b>	<b>0.7122</b>		<b>2,615.0845</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	0.1752	1.4956	2.5605	5.3600e-003	0.1563	0.0260	0.1823	0.0445	0.0239	0.0684		501.4493	501.4493	3.7400e-003			501.5278
Worker	0.7693	1.0346	10.8184	0.0344	2.9062	0.0222	2.9284	0.7707	0.0206	0.7913		2,478.0556	2,478.0556	0.1204			2,480.5842
<b>Total</b>	<b>0.9445</b>	<b>2.5302</b>	<b>13.3789</b>	<b>0.0397</b>	<b>3.0625</b>	<b>0.0482</b>	<b>3.1107</b>	<b>0.8153</b>	<b>0.0445</b>	<b>0.8597</b>		<b>2,979.5049</b>	<b>2,979.5049</b>	<b>0.1242</b>			<b>2,982.1120</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.2047	19.9408	17.4186	0.0274		1.0849	1.0849		1.0141	1.0141		2,601.0453	2,601.0453	0.7055			2,615.8614
<b>Total</b>	<b>2.2047</b>	<b>19.9408</b>	<b>17.4186</b>	<b>0.0274</b>		<b>1.0849</b>	<b>1.0849</b>		<b>1.0141</b>	<b>1.0141</b>		<b>2,601.0453</b>	<b>2,601.0453</b>	<b>0.7055</b>			<b>2,615.8614</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	0.1691	1.2699	2.4993	5.3600e-003	0.1563	0.0236	0.1800	0.0445	0.0217	0.0663		501.2344	501.2344	3.7700e-003			501.3136
Worker	0.7279	0.9673	10.1591	0.0345	2.9062	0.0222	2.9284	0.7707	0.0206	0.7914		2,439.5971	2,439.5971	0.1153			2,442.0177
<b>Total</b>	<b>0.8970</b>	<b>2.2372</b>	<b>12.6583</b>	<b>0.0398</b>	<b>3.0625</b>	<b>0.0459</b>	<b>3.1084</b>	<b>0.8153</b>	<b>0.0424</b>	<b>0.8576</b>		<b>2,940.8314</b>	<b>2,940.8314</b>	<b>0.1190</b>			<b>2,943.3313</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	0.5970	2.7843	18.3521	0.0274		0.1134	0.1134		0.1134	0.1134	0.0000	2,601.0453	2,601.0453	0.7055		2,615.8614
<b>Total</b>	<b>0.5970</b>	<b>2.7843</b>	<b>18.3521</b>	<b>0.0274</b>		<b>0.1134</b>	<b>0.1134</b>		<b>0.1134</b>	<b>0.1134</b>	<b>0.0000</b>	<b>2,601.0453</b>	<b>2,601.0453</b>	<b>0.7055</b>		<b>2,615.8614</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	0.1691	1.2699	2.4993	5.3600e-003	0.1563	0.0236	0.1800	0.0445	0.0217	0.0663		501.2344	501.2344	3.7700e-003		501.3136
Worker	0.7279	0.9673	10.1591	0.0345	2.9062	0.0222	2.9284	0.7707	0.0206	0.7914		2,439.5971	2,439.5971	0.1153		2,442.0177
<b>Total</b>	<b>0.8970</b>	<b>2.2372</b>	<b>12.6583</b>	<b>0.0398</b>	<b>3.0625</b>	<b>0.0459</b>	<b>3.1084</b>	<b>0.8153</b>	<b>0.0424</b>	<b>0.8576</b>		<b>2,940.8314</b>	<b>2,940.8314</b>	<b>0.1190</b>		<b>2,943.3313</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9687	17.5663	17.1570	0.0274		0.9165	0.9165		0.8570	0.8570		2,602.0604	2,602.0604	0.7024		2,616.8097
<b>Total</b>	<b>1.9687</b>	<b>17.5663</b>	<b>17.1570</b>	<b>0.0274</b>		<b>0.9165</b>	<b>0.9165</b>		<b>0.8570</b>	<b>0.8570</b>		<b>2,602.0604</b>	<b>2,602.0604</b>	<b>0.7024</b>		<b>2,616.8097</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	0.1653	1.1527	2.4408	5.3500e-003	0.1563	0.0234	0.1797	0.0445	0.0215	0.0660		500.7816	500.7816	3.8600e-003		500.8626
Worker	0.6894	0.9071	9.5498	0.0344	2.9062	0.0222	2.9284	0.7707	0.0206	0.7914		2,399.0418	2,399.0418	0.1104		2,401.3597
<b>Total</b>	<b>0.8547</b>	<b>2.0598</b>	<b>11.9906</b>	<b>0.0398</b>	<b>3.0625</b>	<b>0.0456</b>	<b>3.1081</b>	<b>0.8153</b>	<b>0.0421</b>	<b>0.8574</b>		<b>2,899.8234</b>	<b>2,899.8234</b>	<b>0.1142</b>		<b>2,902.2223</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	0.5711	2.7383	18.3291	0.0274		0.1031	0.1031		0.1031	0.1031	0.0000	2,602.0604	2,602.0604	0.7024		2,616.8097
<b>Total</b>	<b>0.5711</b>	<b>2.7383</b>	<b>18.3291</b>	<b>0.0274</b>		<b>0.1031</b>	<b>0.1031</b>		<b>0.1031</b>	<b>0.1031</b>	<b>0.0000</b>	<b>2,602.0604</b>	<b>2,602.0604</b>	<b>0.7024</b>		<b>2,616.8097</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	0.1653	1.1527	2.4408	5.3500e-003	0.1563	0.0234	0.1797	0.0445	0.0215	0.0660		500.7816	500.7816	3.8600e-003		500.8626
Worker	0.6894	0.9071	9.5498	0.0344	2.9062	0.0222	2.9284	0.7707	0.0206	0.7914		2,399.0418	2,399.0418	0.1104		2,401.3597
<b>Total</b>	<b>0.8547</b>	<b>2.0598</b>	<b>11.9906</b>	<b>0.0398</b>	<b>3.0625</b>	<b>0.0456</b>	<b>3.1081</b>	<b>0.8153</b>	<b>0.0421</b>	<b>0.8574</b>		<b>2,899.8234</b>	<b>2,899.8234</b>	<b>0.1142</b>		<b>2,902.2223</b>

### 3.5 Building Construction - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8012	15.8790	17.0061	0.0274		0.7900	0.7900		0.7388	0.7388		2,602.8067	2,602.8067	0.6984		2,617.4735
<b>Total</b>	<b>1.8012</b>	<b>15.8790</b>	<b>17.0061</b>	<b>0.0274</b>		<b>0.7900</b>	<b>0.7900</b>		<b>0.7388</b>	<b>0.7388</b>		<b>2,602.8067</b>	<b>2,602.8067</b>	<b>0.6984</b>		<b>2,617.4735</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	0.1535	0.9158	2.3501	5.3300e-003	0.1563	0.0231	0.1794	0.0445	0.0212	0.0658		498.3618	498.3618	3.4800e-003		498.4348
Worker	0.6532	0.8536	8.9934	0.0344	2.9062	0.0222	2.9284	0.7707	0.0206	0.7913		2,362.0381	2,362.0381	0.1061		2,364.2651
<b>Total</b>	<b>0.8067</b>	<b>1.7693</b>	<b>11.3435</b>	<b>0.0398</b>	<b>3.0625</b>	<b>0.0453</b>	<b>3.1078</b>	<b>0.8153</b>	<b>0.0418</b>	<b>0.8571</b>		<b>2,860.3998</b>	<b>2,860.3998</b>	<b>0.1095</b>		<b>2,862.7000</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	0.5488	2.6960	18.3112	0.0274		0.0944	0.0944		0.0944	0.0944	0.0000	2,602.8067	2,602.8067	0.6984		2,617.4735
<b>Total</b>	<b>0.5488</b>	<b>2.6960</b>	<b>18.3112</b>	<b>0.0274</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>	<b>0.0000</b>	<b>2,602.8067</b>	<b>2,602.8067</b>	<b>0.6984</b>		<b>2,617.4735</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	0.1535	0.9158	2.3501	5.3300e-003	0.1563	0.0231	0.1794	0.0445	0.0212	0.0658		498.3618	498.3618	3.4800e-003		498.4348
Worker	0.6532	0.8536	8.9934	0.0344	2.9062	0.0222	2.9284	0.7707	0.0206	0.7913		2,362.0381	2,362.0381	0.1061		2,364.2651
<b>Total</b>	<b>0.8067</b>	<b>1.7693</b>	<b>11.3435</b>	<b>0.0398</b>	<b>3.0625</b>	<b>0.0453</b>	<b>3.1078</b>	<b>0.8153</b>	<b>0.0418</b>	<b>0.8571</b>		<b>2,860.3998</b>	<b>2,860.3998</b>	<b>0.1095</b>		<b>2,862.7000</b>

### **3.6 Paving 2 - 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	0.7839	7.3126	6.2273	8.9700e-003		0.4809	0.4809		0.4433	0.4433		855.0418	855.0418	0.2682		860.6744
Paving	0.0160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7999</b>	<b>7.3126</b>	<b>6.2273</b>	<b>8.9700e-003</b>		<b>0.4809</b>	<b>0.4809</b>		<b>0.4433</b>	<b>0.4433</b>		<b>855.0418</b>	<b>855.0418</b>	<b>0.2682</b>		<b>860.6744</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	0.0828	0.1114	1.1651	3.7000e-003	0.3130	2.3900e-003	0.3154	0.0830	2.2200e-003	0.0852		266.8675	266.8675	0.0130		267.1398
<b>Total</b>	<b>0.0828</b>	<b>0.1114</b>	<b>1.1651</b>	<b>3.7000e-003</b>	<b>0.3130</b>	<b>2.3900e-003</b>	<b>0.3154</b>	<b>0.0830</b>	<b>2.2200e-003</b>	<b>0.0852</b>		<b>266.8675</b>	<b>266.8675</b>	<b>0.0130</b>		<b>267.1398</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	0.1477	0.7251	6.6200	8.9700e-003		0.0246	0.0246		0.0246	0.0246	0.0000	855.0418	855.0418	0.2682		860.6744
Paving	0.0160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1637</b>	<b>0.7251</b>	<b>6.6200</b>	<b>8.9700e-003</b>		<b>0.0246</b>	<b>0.0246</b>		<b>0.0246</b>	<b>0.0246</b>	<b>0.0000</b>	<b>855.0418</b>	<b>855.0418</b>	<b>0.2682</b>		<b>860.6744</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	0.0828	0.1114	1.1651	3.7000e-003	0.3130	2.3900e-003	0.3154	0.0830	2.2200e-003	0.0852		266.8675	266.8675	0.0130		267.1398
<b>Total</b>	<b>0.0828</b>	<b>0.1114</b>	<b>1.1651</b>	<b>3.7000e-003</b>	<b>0.3130</b>	<b>2.3900e-003</b>	<b>0.3154</b>	<b>0.0830</b>	<b>2.2200e-003</b>	<b>0.0852</b>		<b>266.8675</b>	<b>266.8675</b>	<b>0.0130</b>		<b>267.1398</b>

## 3.7 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	27.0618					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.8329
<b>Total</b>	<b>27.2664</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.8329</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	0.1167	0.1535	1.6161	5.8300e-003	0.4918	3.7600e-003	0.4956	0.1304	3.4900e-003	0.1339		405.9917	405.9917	0.0187			406.3840
<b>Total</b>	<b>0.1167</b>	<b>0.1535</b>	<b>1.6161</b>	<b>5.8300e-003</b>	<b>0.4918</b>	<b>3.7600e-003</b>	<b>0.4956</b>	<b>0.1304</b>	<b>3.4900e-003</b>	<b>0.1339</b>		<b>405.9917</b>	<b>405.9917</b>	<b>0.0187</b>			<b>406.3840</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	27.0618					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183			281.8329
<b>Total</b>	<b>27.0915</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>			<b>281.8329</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	0.1167	0.1535	1.6161	5.8300e-003	0.4918	3.7600e-003	0.4956	0.1304	3.4900e-003	0.1339		405.9917	405.9917	0.0187			406.3840
<b>Total</b>	<b>0.1167</b>	<b>0.1535</b>	<b>1.6161</b>	<b>5.8300e-003</b>	<b>0.4918</b>	<b>3.7600e-003</b>	<b>0.4956</b>	<b>0.1304</b>	<b>3.4900e-003</b>	<b>0.1339</b>		<b>405.9917</b>	<b>405.9917</b>	<b>0.0187</b>			<b>406.3840</b>

### 3.7 Architectural Coating - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.0618					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>27.2535</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</b>

#### 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	0.1105	0.1445	1.5220	5.8300e-003	0.4918	3.7600e-003	0.4956	0.1304	3.4900e-003	0.1339		399.7295	399.7295	0.0180		400.1064
<b>Total</b>	<b>0.1105</b>	<b>0.1445</b>	<b>1.5220</b>	<b>5.8300e-003</b>	<b>0.4918</b>	<b>3.7600e-003</b>	<b>0.4956</b>	<b>0.1304</b>	<b>3.4900e-003</b>	<b>0.1339</b>		<b>399.7295</b>	<b>399.7295</b>	<b>0.0180</b>		<b>400.1064</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	27.0618					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8017
<b>Total</b>	<b>27.0915</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8017</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	0.1105	0.1445	1.5220	5.8300e-003	0.4918	3.7600e-003	0.4956	0.1304	3.4900e-003	0.1339		399.7295	399.7295	0.0180		400.1064
<b>Total</b>	<b>0.1105</b>	<b>0.1445</b>	<b>1.5220</b>	<b>5.8300e-003</b>	<b>0.4918</b>	<b>3.7600e-003</b>	<b>0.4956</b>	<b>0.1304</b>	<b>3.4900e-003</b>	<b>0.1339</b>		<b>399.7295</b>	<b>399.7295</b>	<b>0.0180</b>		<b>400.1064</b>

### 3.8 Paving - 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	0.9590	9.3955	10.4173	0.0147		0.5631	0.5631		0.5180	0.5180		1,419.7572	1,419.7572	0.4592		1,429.4000
Paving	6.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9658</b>	<b>9.3955</b>	<b>10.4173</b>	<b>0.0147</b>		<b>0.5631</b>	<b>0.5631</b>		<b>0.5180</b>	<b>0.5180</b>		<b>1,419.7572</b>	<b>1,419.7572</b>	<b>0.4592</b>		<b>1,429.4000</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	0.0132	0.0922	0.1953	4.3000e-004	0.0125	1.8700e-003	0.0144	3.5600e-003	1.7200e-003	5.2800e-003		40.0625	40.0625	3.1000e-004		40.0690
Worker	0.1273	0.1675	1.7630	6.3600e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8100e-003	0.1461		442.9000	442.9000	0.0204		443.3279
<b>Total</b>	<b>0.1405</b>	<b>0.2597</b>	<b>1.9583</b>	<b>6.7900e-003</b>	<b>0.5490</b>	<b>5.9700e-003</b>	<b>0.5550</b>	<b>0.1459</b>	<b>5.5300e-003</b>	<b>0.1514</b>		<b>482.9626</b>	<b>482.9626</b>	<b>0.0207</b>		<b>483.3970</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	0.1796	0.7781	11.0728	0.0147		0.0239	0.0239		0.0239	0.0239	0.0000	1,419.7572	1,419.7572	0.4592		1,429.4000
Paving	6.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1864</b>	<b>0.7781</b>	<b>11.0728</b>	<b>0.0147</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0239</b>	<b>0.0239</b>	<b>0.0000</b>	<b>1,419.7572</b>	<b>1,419.7572</b>	<b>0.4592</b>		<b>1,429.4000</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	0.0132	0.0922	0.1953	4.3000e-004	0.0125	1.8700e-003	0.0144	3.5600e-003	1.7200e-003	5.2800e-003		40.0625	40.0625	3.1000e-004		40.0690
Worker	0.1273	0.1675	1.7630	6.3600e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8100e-003	0.1461		442.9000	442.9000	0.0204		443.3279
<b>Total</b>	<b>0.1405</b>	<b>0.2597</b>	<b>1.9583</b>	<b>6.7900e-003</b>	<b>0.5490</b>	<b>5.9700e-003</b>	<b>0.5550</b>	<b>0.1459</b>	<b>5.5300e-003</b>	<b>0.1514</b>		<b>482.9626</b>	<b>482.9626</b>	<b>0.0207</b>		<b>483.3970</b>

### 3.8 Paving - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8997	8.7790	10.3989	0.0147		0.5057	0.5057		0.4652	0.4652		1,420.6911	1,420.6911	0.4595		1,430.3401
Paving	6.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9065</b>	<b>8.7790</b>	<b>10.3989</b>	<b>0.0147</b>		<b>0.5057</b>	<b>0.5057</b>		<b>0.4652</b>	<b>0.4652</b>		<b>1,420.6911</b>	<b>1,420.6911</b>	<b>0.4595</b>		<b>1,430.3401</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	0.0123	0.0733	0.1880	4.3000e-004	0.0125	1.8500e-003	0.0144	3.5600e-003	1.7000e-003	5.2600e-003		39.8689	39.8689	2.8000e-004		39.8748
Worker	0.1206	0.1576	1.6603	6.3600e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8000e-003	0.1461		436.0686	436.0686	0.0196		436.4797
<b>Total</b>	<b>0.1329</b>	<b>0.2308</b>	<b>1.8483</b>	<b>6.7900e-003</b>	<b>0.5490</b>	<b>5.9500e-003</b>	<b>0.5550</b>	<b>0.1459</b>	<b>5.5000e-003</b>	<b>0.1514</b>		<b>475.9375</b>	<b>475.9375</b>	<b>0.0199</b>		<b>476.3545</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	0.1796	0.7781	11.0728	0.0147		0.0239	0.0239		0.0239	0.0239	0.0000	1,420.6911	1,420.6911	0.4595		1,430.3401
Paving	6.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1864</b>	<b>0.7781</b>	<b>11.0728</b>	<b>0.0147</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0239</b>	<b>0.0239</b>	<b>0.0000</b>	<b>1,420.6911</b>	<b>1,420.6911</b>	<b>0.4595</b>		<b>1,430.3401</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	0.0123	0.0733	0.1880	4.3000e-004	0.0125	1.8500e-003	0.0144	3.5600e-003	1.7000e-003	5.2600e-003		39.8689	39.8689	2.8000e-004		39.8748
Worker	0.1206	0.1576	1.6603	6.3600e-003	0.5365	4.1000e-003	0.5406	0.1423	3.8000e-003	0.1461		436.0686	436.0686	0.0196		436.4797
<b>Total</b>	<b>0.1329</b>	<b>0.2308</b>	<b>1.8483</b>	<b>6.7900e-003</b>	<b>0.5490</b>	<b>5.9500e-003</b>	<b>0.5550</b>	<b>0.1459</b>	<b>5.5000e-003</b>	<b>0.1514</b>		<b>475.9375</b>	<b>475.9375</b>	<b>0.0199</b>		<b>476.3545</b>

## **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**  
*Phase M Construction Emissions*

## Harbor UCLA Master Plan- Phase M South Coast Air Basin, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	55.60	1000sqft	1.28	55,600.00	0
Hospital	55.60	1000sqft	1.28	55,600.00	0
Parking Lot	128.00	Space	1.15	41,650.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2017
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	230.00	95.00
tblConstructionPhase	NumDays	20.00	52.00
tblConstructionPhase	NumDays	8.00	53.00
tblConstructionPhase	NumDays	18.00	87.00
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	PhaseEndDate	8/10/2017	8/11/2017

tblConstructionPhase	PhaseStartDate	3/31/2017	4/1/2017
tblGrading	MaterialExported	0.00	8,744.00
tblGrading	MaterialImported	0.00	14,574.00
tblLandUse	LandUseSquareFeet	51,200.00	41,650.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripNumber	159.00	1,311.50
tblTripsAndVMT	HaulingTripNumber	2,915.00	3,886.30
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	25.00	27.00
tblTripsAndVMT	WorkerTripNumber	10.00	102.00
tblTripsAndVMT	WorkerTripNumber	15.00	252.00
tblTripsAndVMT	WorkerTripNumber	15.00	156.00
tblTripsAndVMT	WorkerTripNumber	53.00	150.00
tblTripsAndVMT	WorkerTripNumber	10.00	28.00



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/6/2016	9/15/2016	5	52	
2	Grading	Grading	9/16/2016	11/29/2016	5	53	
3	Paving	Paving	11/30/2016	3/30/2017	5	87	
4	Building Construction	Building Construction	4/1/2017	8/11/2017	5	95	
5	Paving 2	Paving	8/12/2017	11/10/2017	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 26.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	0	6.00	130	0.36
Paving	Rollers	0	6.00	80	0.38

Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 2	Cement and Mortar Mixers	0	6.00	9	0.56
Paving 2	Pavers	0	8.00	125	0.42
Paving 2	Paving Equipment	2	6.00	130	0.36
Paving 2	Rollers	0	6.00	80	0.38
Paving 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving 2	Trenchers	1	8.00	80	0.50

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	102.00	2.00	1,311.50	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	252.00	2.00	3,886.30	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	156.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	150.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	4	28.00	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

Clean Paved Roads

### 3.2 Demolition - 2016

#### 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					0.6631	0.0000	0.6631	0.1004	0.0000	0.1004			0.0000				0.0000
Off-Road	2.0219	16.9299	13.3915	0.0209		1.1632	1.1632		1.1257	1.1257		2,058.9267	2,058.9267	0.3782			2,066.8694
<b>Total</b>	<b>2.0219</b>	<b>16.9299</b>	<b>13.3915</b>	<b>0.0209</b>	<b>0.6631</b>	<b>1.1632</b>	<b>1.8263</b>	<b>0.1004</b>	<b>1.1257</b>	<b>1.2261</b>		<b>2,058.9267</b>	<b>2,058.9267</b>	<b>0.3782</b>			<b>2,066.8694</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	0.4349	6.9831	4.9094	0.0186	0.4394	0.1080	0.5474	0.1203	0.0994	0.2197		1,877.2862	1,877.2862	0.0135			1,877.5688
Vendor	0.0167	0.1737	0.1995	4.4000e-004	0.0125	2.8200e-003	0.0153	3.5600e-003	2.5900e-003	6.1500e-003		43.6396	43.6396	3.1000e-004			43.6462
Worker	0.4246	0.5311	6.6161	0.0145	1.1401	9.5300e-003	1.1497	0.3024	8.7600e-003	0.3111		1,213.3742	1,213.3742	0.0622			1,214.6805
<b>Total</b>	<b>0.8762</b>	<b>7.6878</b>	<b>11.7249</b>	<b>0.0335</b>	<b>1.5920</b>	<b>0.1204</b>	<b>1.7124</b>	<b>0.4263</b>	<b>0.1107</b>	<b>0.5370</b>		<b>3,134.3000</b>	<b>3,134.3000</b>	<b>0.0760</b>			<b>3,135.8954</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.2586	0.0000	0.2586	0.0392	0.0000	0.0392			0.0000				0.0000
Off-Road	0.2283	0.9892	14.0766	0.0209		0.0304	0.0304		0.0304	0.0304	0.0000	2,058.9267	2,058.9267	0.3782			2,066.8694
<b>Total</b>	<b>0.2283</b>	<b>0.9892</b>	<b>14.0766</b>	<b>0.0209</b>	<b>0.2586</b>	<b>0.0304</b>	<b>0.2891</b>	<b>0.0392</b>	<b>0.0304</b>	<b>0.0696</b>	<b>0.0000</b>	<b>2,058.9267</b>	<b>2,058.9267</b>	<b>0.3782</b>			<b>2,066.8694</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	0.4349	6.9831	4.9094	0.0186	0.4394	0.1080	0.5474	0.1203	0.0994	0.2197		1,877.2862	1,877.2862	0.0135		1,877.5688
Vendor	0.0167	0.1737	0.1995	4.4000e-004	0.0125	2.8200e-003	0.0153	3.5600e-003	2.5900e-003	6.1500e-003		43.6396	43.6396	3.1000e-004		43.6462
Worker	0.4246	0.5311	6.6161	0.0145	1.1401	9.5300e-003	1.1497	0.3024	8.7600e-003	0.3111		1,213.3742	1,213.3742	0.0622		1,214.6805
<b>Total</b>	<b>0.8762</b>	<b>7.6878</b>	<b>11.7249</b>	<b>0.0335</b>	<b>1.5920</b>	<b>0.1204</b>	<b>1.7124</b>	<b>0.4263</b>	<b>0.1107</b>	<b>0.5370</b>		<b>3,134.3000</b>	<b>3,134.3000</b>	<b>0.0760</b>		<b>3,135.8954</b>

### 3.3 Grading - 2016

#### 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					0.5800	0.0000	0.5800	0.0648	0.0000	0.0648			0.0000			0.0000
Off-Road	2.9255	31.0389	17.4286	0.0270		1.7734	1.7734		1.6316	1.6316		2,806.7307	2,806.7307	0.8466		2,824.5095
<b>Total</b>	<b>2.9255</b>	<b>31.0389</b>	<b>17.4286</b>	<b>0.0270</b>	<b>0.5800</b>	<b>1.7734</b>	<b>2.3534</b>	<b>0.0648</b>	<b>1.6316</b>	<b>1.6963</b>		<b>2,806.7307</b>	<b>2,806.7307</b>	<b>0.8466</b>		<b>2,824.5095</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	1.2640	20.2980	14.2703	0.0541	1.2774	0.3140	1.5914	0.3498	0.2888	0.6386		5,456.8078	5,456.8078	0.0391		5,457.6292
Vendor	0.0167	0.1737	0.1995	4.4000e-004	0.0125	2.8200e-003	0.0153	3.5600e-003	2.5900e-003	6.1500e-003		43.6396	43.6396	3.1000e-004		43.6462
Worker	1.0491	1.3120	16.3456	0.0357	2.8168	0.0235	2.8403	0.7470	0.0217	0.7687		2,997.7481	2,997.7481	0.1537		3,000.9753
<b>Total</b>	<b>2.3298</b>	<b>21.7838</b>	<b>30.8154</b>	<b>0.0903</b>	<b>4.1067</b>	<b>0.3404</b>	<b>4.4470</b>	<b>1.1004</b>	<b>0.3131</b>	<b>1.4134</b>		<b>8,498.1955</b>	<b>8,498.1955</b>	<b>0.1931</b>		<b>8,502.2506</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.2262	0.0000	0.2262	0.0253	0.0000	0.0253			0.0000				0.0000
Off-Road	0.3304	1.4317	18.4786	0.0270		0.0441	0.0441		0.0441	0.0441	0.0000	2,806.7307	2,806.7307	0.8466			2,824.5095
<b>Total</b>	<b>0.3304</b>	<b>1.4317</b>	<b>18.4786</b>	<b>0.0270</b>	<b>0.2262</b>	<b>0.0441</b>	<b>0.2703</b>	<b>0.0253</b>	<b>0.0441</b>	<b>0.0693</b>	<b>0.0000</b>	<b>2,806.7307</b>	<b>2,806.7307</b>	<b>0.8466</b>			<b>2,824.5095</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	1.2640	20.2980	14.2703	0.0541	1.2774	0.3140	1.5914	0.3498	0.2888	0.6386		5,456.8078	5,456.8078	0.0391			5,457.6292
Vendor	0.0167	0.1737	0.1995	4.4000e-004	0.0125	2.8200e-003	0.0153	3.5600e-003	2.5900e-003	6.1500e-003		43.6396	43.6396	3.1000e-004			43.6462
Worker	1.0491	1.3120	16.3456	0.0357	2.8168	0.0235	2.8403	0.7470	0.0217	0.7687		2,997.7481	2,997.7481	0.1537			3,000.9753
<b>Total</b>	<b>2.3298</b>	<b>21.7838</b>	<b>30.8154</b>	<b>0.0903</b>	<b>4.1067</b>	<b>0.3404</b>	<b>4.4470</b>	<b>1.1004</b>	<b>0.3131</b>	<b>1.4134</b>		<b>8,498.1955</b>	<b>8,498.1955</b>	<b>0.1931</b>			<b>8,502.2506</b>

### 3.4 Paving - 2016

#### 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	1.4506	13.5740	10.1130	0.0135		1.0247	1.0247		0.9446	0.9446		1,370.4837	1,370.4837	0.3984			1,378.8501
Paving	0.0346					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.4852</b>	<b>13.5740</b>	<b>10.1130</b>	<b>0.0135</b>		<b>1.0247</b>	<b>1.0247</b>		<b>0.9446</b>	<b>0.9446</b>		<b>1,370.4837</b>	<b>1,370.4837</b>	<b>0.3984</b>			<b>1,378.8501</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	0.6494	0.8122	10.1187	0.0221	1.7437	0.0146	1.7583	0.4624	0.0134	0.4758		1,855.7488	1,855.7488	0.0951		1,857.7466
<b>Total</b>	<b>0.6494</b>	<b>0.8122</b>	<b>10.1187</b>	<b>0.0221</b>	<b>1.7437</b>	<b>0.0146</b>	<b>1.7583</b>	<b>0.4624</b>	<b>0.0134</b>	<b>0.4758</b>		<b>1,855.7488</b>	<b>1,855.7488</b>	<b>0.0951</b>		<b>1,857.7466</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	0.2402	1.2121	9.8308	0.0135		0.0425	0.0425		0.0425	0.0425	0.0000	1,370.4837	1,370.4837	0.3984		1,378.8501
Paving	0.0346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2748</b>	<b>1.2121</b>	<b>9.8308</b>	<b>0.0135</b>		<b>0.0425</b>	<b>0.0425</b>		<b>0.0425</b>	<b>0.0425</b>	<b>0.0000</b>	<b>1,370.4837</b>	<b>1,370.4837</b>	<b>0.3984</b>		<b>1,378.8501</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	0.6494	0.8122	10.1187	0.0221	1.7437	0.0146	1.7583	0.4624	0.0134	0.4758		1,855.7488	1,855.7488	0.0951		1,857.7466
<b>Total</b>	<b>0.6494</b>	<b>0.8122</b>	<b>10.1187</b>	<b>0.0221</b>	<b>1.7437</b>	<b>0.0146</b>	<b>1.7583</b>	<b>0.4624</b>	<b>0.0134</b>	<b>0.4758</b>		<b>1,855.7488</b>	<b>1,855.7488</b>	<b>0.0951</b>		<b>1,857.7466</b>

### 3.4 Paving - 2017

#### 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	1.3553	12.7282	10.0379	0.0135		0.9377	0.9377		0.8644	0.8644		1,348.8342	1,348.8342	0.3979		1,357.1908
Paving	0.0346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3899</b>	<b>12.7282</b>	<b>10.0379</b>	<b>0.0135</b>		<b>0.9377</b>	<b>0.9377</b>		<b>0.8644</b>	<b>0.8644</b>		<b>1,348.8342</b>	<b>1,348.8342</b>	<b>0.3979</b>		<b>1,357.1908</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	0.5838	0.7335	9.1577	0.0221	1.7437	0.0140	1.7577	0.4624	0.0129	0.4754		1,784.7298	1,784.7298	0.0878		1,786.5735
<b>Total</b>	<b>0.5838</b>	<b>0.7335</b>	<b>9.1577</b>	<b>0.0221</b>	<b>1.7437</b>	<b>0.0140</b>	<b>1.7577</b>	<b>0.4624</b>	<b>0.0129</b>	<b>0.4754</b>		<b>1,784.7298</b>	<b>1,784.7298</b>	<b>0.0878</b>		<b>1,786.5735</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	0.2401	1.2110	9.8308	0.0135		0.0423	0.0423		0.0423	0.0423	0.0000	1,348.8342	1,348.8342	0.3979		1,357.1908
Paving	0.0346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2747</b>	<b>1.2110</b>	<b>9.8308</b>	<b>0.0135</b>		<b>0.0423</b>	<b>0.0423</b>		<b>0.0423</b>	<b>0.0423</b>	<b>0.0000</b>	<b>1,348.8342</b>	<b>1,348.8342</b>	<b>0.3979</b>		<b>1,357.1908</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	0.5838	0.7335	9.1577	0.0221	1.7437	0.0140	1.7577	0.4624	0.0129	0.4754		1,784.7298	1,784.7298	0.0878		1,786.5735
<b>Total</b>	<b>0.5838</b>	<b>0.7335</b>	<b>9.1577</b>	<b>0.0221</b>	<b>1.7437</b>	<b>0.0140</b>	<b>1.7577</b>	<b>0.4624</b>	<b>0.0129</b>	<b>0.4754</b>		<b>1,784.7298</b>	<b>1,784.7298</b>	<b>0.0878</b>		<b>1,786.5735</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5661	22.6066	12.5707	0.0206		1.3101	1.3101		1.2340	1.2340		2,027.6449	2,027.6449	0.5272		2,038.7170
<b>Total</b>	<b>2.5661</b>	<b>22.6066</b>	<b>12.5707</b>	<b>0.0206</b>		<b>1.3101</b>	<b>1.3101</b>		<b>1.2340</b>	<b>1.2340</b>		<b>2,027.6449</b>	<b>2,027.6449</b>	<b>0.5272</b>		<b>2,038.7170</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	0.2067	2.1351	2.5329	5.8700e-003	0.1688	0.0340	0.2028	0.0481	0.0313	0.0793		579.6013	579.6013	4.0900e-003		579.6872
Worker	0.5614	0.7053	8.8055	0.0212	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,716.0863	1,716.0863	0.0844		1,717.8591
<b>Total</b>	<b>0.7681</b>	<b>2.8403</b>	<b>11.3384</b>	<b>0.0271</b>	<b>1.8454</b>	<b>0.0475</b>	<b>1.8929</b>	<b>0.4927</b>	<b>0.0437</b>	<b>0.5364</b>		<b>2,295.6876</b>	<b>2,295.6876</b>	<b>0.0885</b>		<b>2,297.5463</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	0.7140	2.6640	12.0171	0.0206		0.1562	0.1562		0.1562	0.1562	0.0000	2,027.6449	2,027.6449	0.5272		2,038.7170
<b>Total</b>	<b>0.7140</b>	<b>2.6640</b>	<b>12.0171</b>	<b>0.0206</b>		<b>0.1562</b>	<b>0.1562</b>		<b>0.1562</b>	<b>0.1562</b>	<b>0.0000</b>	<b>2,027.6449</b>	<b>2,027.6449</b>	<b>0.5272</b>		<b>2,038.7170</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	0.2067	2.1351	2.5329	5.8700e-003	0.1688	0.0340	0.2028	0.0481	0.0313	0.0793		579.6013	579.6013	4.0900e-003		579.6872
Worker	0.5614	0.7053	8.8055	0.0212	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,716.0863	1,716.0863	0.0844		1,717.8591
<b>Total</b>	<b>0.7681</b>	<b>2.8403</b>	<b>11.3384</b>	<b>0.0271</b>	<b>1.8454</b>	<b>0.0475</b>	<b>1.8929</b>	<b>0.4927</b>	<b>0.0437</b>	<b>0.5364</b>		<b>2,295.6876</b>	<b>2,295.6876</b>	<b>0.0885</b>		<b>2,297.5463</b>

### **3.6 Paving 2 - 2017**

#### 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	1.2781	12.5797	8.9984	0.0126		0.8390	0.8390		0.7719	0.7719		1,287.9365	1,287.9365	0.3946		1,296.2236
Paving	0.0464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3244</b>	<b>12.5797</b>	<b>8.9984</b>	<b>0.0126</b>		<b>0.8390</b>	<b>0.8390</b>		<b>0.7719</b>	<b>0.7719</b>		<b>1,287.9365</b>	<b>1,287.9365</b>	<b>0.3946</b>		<b>1,296.2236</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	0.1048	0.1317	1.6437	3.9600e-003	0.3130	2.5200e-003	0.3155	0.0830	2.3200e-003	0.0853		320.3361	320.3361	0.0158		320.6670
<b>Total</b>	<b>0.1048</b>	<b>0.1317</b>	<b>1.6437</b>	<b>3.9600e-003</b>	<b>0.3130</b>	<b>2.5200e-003</b>	<b>0.3155</b>	<b>0.0830</b>	<b>2.3200e-003</b>	<b>0.0853</b>		<b>320.3361</b>	<b>320.3361</b>	<b>0.0158</b>		<b>320.6670</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	0.1546	0.6699	9.5334	0.0126		0.0206	0.0206		0.0206	0.0206	0.0000	1,287.9365	1,287.9365	0.3946		1,296.2236
Paving	0.0464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2010</b>	<b>0.6699</b>	<b>9.5334</b>	<b>0.0126</b>		<b>0.0206</b>	<b>0.0206</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>1,287.9365</b>	<b>1,287.9365</b>	<b>0.3946</b>		<b>1,296.2236</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	0.1048	0.1317	1.6437	3.9600e-003	0.3130	2.5200e-003	0.3155	0.0830	2.3200e-003	0.0853		320.3361	320.3361	0.0158		320.6670
<b>Total</b>	<b>0.1048</b>	<b>0.1317</b>	<b>1.6437</b>	<b>3.9600e-003</b>	<b>0.3130</b>	<b>2.5200e-003</b>	<b>0.3155</b>	<b>0.0830</b>	<b>2.3200e-003</b>	<b>0.0853</b>		<b>320.3361</b>	<b>320.3361</b>	<b>0.0158</b>		<b>320.6670</b>

## Harbor UCLA Master Plan- Phase M South Coast Air Basin, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	55.60	1000sqft	1.28	55,600.00	0
Hospital	55.60	1000sqft	1.28	55,600.00	0
Parking Lot	128.00	Space	1.15	41,650.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2017
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Client Provided Information

Construction Phase - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Off-road Equipment - Client Provided Information

Trips and VMT - Client Provided Information

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Tier 4 Final, Watering 3x per day

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	230.00	95.00
tblConstructionPhase	NumDays	20.00	52.00
tblConstructionPhase	NumDays	8.00	53.00
tblConstructionPhase	NumDays	18.00	87.00
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	PhaseEndDate	8/10/2017	8/11/2017

tblConstructionPhase	PhaseStartDate	3/31/2017	4/1/2017
tblGrading	MaterialExported	0.00	8,744.00
tblGrading	MaterialImported	0.00	14,574.00
tblLandUse	LandUseSquareFeet	51,200.00	41,650.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripNumber	159.00	1,311.50
tblTripsAndVMT	HaulingTripNumber	2,915.00	3,886.30
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	25.00	27.00
tblTripsAndVMT	WorkerTripNumber	10.00	102.00
tblTripsAndVMT	WorkerTripNumber	15.00	252.00
tblTripsAndVMT	WorkerTripNumber	15.00	156.00
tblTripsAndVMT	WorkerTripNumber	53.00	150.00
tblTripsAndVMT	WorkerTripNumber	10.00	28.00



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/6/2016	9/15/2016	5	52	
2	Grading	Grading	9/16/2016	11/29/2016	5	53	
3	Paving	Paving	11/30/2016	3/30/2017	5	87	
4	Building Construction	Building Construction	4/1/2017	8/11/2017	5	95	
5	Paving 2	Paving	8/12/2017	11/10/2017	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 26.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Grading	Rubber Tired Loaders	1	8.00	199	0.36
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	0	8.00	125	0.42
Paving	Paving Equipment	0	6.00	130	0.36
Paving	Rollers	0	6.00	80	0.38

Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 2	Cement and Mortar Mixers	0	6.00	9	0.56
Paving 2	Pavers	0	8.00	125	0.42
Paving 2	Paving Equipment	2	6.00	130	0.36
Paving 2	Rollers	0	6.00	80	0.38
Paving 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving 2	Trenchers	1	8.00	80	0.50

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	102.00	2.00	1,311.50	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	252.00	2.00	3,886.30	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	156.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	150.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	4	28.00	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

Clean Paved Roads

### 3.2 Demolition - 2016

#### 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					0.6631	0.0000	0.6631	0.1004	0.0000	0.1004			0.0000				0.0000
Off-Road	2.0219	16.9299	13.3915	0.0209		1.1632	1.1632		1.1257	1.1257		2,058.9267	2,058.9267	0.3782			2,066.8694
<b>Total</b>	<b>2.0219</b>	<b>16.9299</b>	<b>13.3915</b>	<b>0.0209</b>	<b>0.6631</b>	<b>1.1632</b>	<b>1.8263</b>	<b>0.1004</b>	<b>1.1257</b>	<b>1.2261</b>		<b>2,058.9267</b>	<b>2,058.9267</b>	<b>0.3782</b>			<b>2,066.8694</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	0.4592	7.2359	5.6249	0.0186	0.4394	0.1083	0.5477	0.1203	0.0996	0.2199		1,872.8279	1,872.8279	0.0136			1,873.1142
Vendor	0.0183	0.1781	0.2395	4.3000e-004	0.0125	2.8500e-003	0.0154	3.5600e-003	2.6200e-003	6.1800e-003		43.2739	43.2739	3.2000e-004			43.2807
Worker	0.4341	0.5833	6.0996	0.0135	1.1401	9.5300e-003	1.1497	0.3024	8.7600e-003	0.3111		1,138.0091	1,138.0091	0.0622			1,139.3153
<b>Total</b>	<b>0.9117</b>	<b>7.9974</b>	<b>11.9640</b>	<b>0.0326</b>	<b>1.5920</b>	<b>0.1207</b>	<b>1.7127</b>	<b>0.4263</b>	<b>0.1110</b>	<b>0.5372</b>		<b>3,054.1108</b>	<b>3,054.1108</b>	<b>0.0762</b>			<b>3,055.7101</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.2586	0.0000	0.2586	0.0392	0.0000	0.0392			0.0000				0.0000
Off-Road	0.2283	0.9892	14.0766	0.0209		0.0304	0.0304		0.0304	0.0304	0.0000	2,058.9267	2,058.9267	0.3782			2,066.8694
<b>Total</b>	<b>0.2283</b>	<b>0.9892</b>	<b>14.0766</b>	<b>0.0209</b>	<b>0.2586</b>	<b>0.0304</b>	<b>0.2891</b>	<b>0.0392</b>	<b>0.0304</b>	<b>0.0696</b>	<b>0.0000</b>	<b>2,058.9267</b>	<b>2,058.9267</b>	<b>0.3782</b>			<b>2,066.8694</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	0.4592	7.2359	5.6249	0.0186	0.4394	0.1083	0.5477	0.1203	0.0996	0.2199		1,872.8279	1,872.8279	0.0136		1,873.1142
Vendor	0.0183	0.1781	0.2395	4.3000e-004	0.0125	2.8500e-003	0.0154	3.5600e-003	2.6200e-003	6.1800e-003		43.2739	43.2739	3.2000e-004		43.2807
Worker	0.4341	0.5833	6.0996	0.0135	1.1401	9.5300e-003	1.1497	0.3024	8.7600e-003	0.3111		1,138.0091	1,138.0091	0.0622		1,139.3153
<b>Total</b>	<b>0.9117</b>	<b>7.9974</b>	<b>11.9640</b>	<b>0.0326</b>	<b>1.5920</b>	<b>0.1207</b>	<b>1.7127</b>	<b>0.4263</b>	<b>0.1110</b>	<b>0.5372</b>		<b>3,054.1108</b>	<b>3,054.1108</b>	<b>0.0762</b>		<b>3,055.7101</b>

### 3.3 Grading - 2016

#### 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					0.5800	0.0000	0.5800	0.0648	0.0000	0.0648			0.0000			0.0000
Off-Road	2.9255	31.0389	17.4286	0.0270		1.7734	1.7734		1.6316	1.6316		2,806.7307	2,806.7307	0.8466		2,824.5095
<b>Total</b>	<b>2.9255</b>	<b>31.0389</b>	<b>17.4286</b>	<b>0.0270</b>	<b>0.5800</b>	<b>1.7734</b>	<b>2.3534</b>	<b>0.0648</b>	<b>1.6316</b>	<b>1.6963</b>		<b>2,806.7307</b>	<b>2,806.7307</b>	<b>0.8466</b>		<b>2,824.5095</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	1.3349	21.0331	16.3502	0.0540	1.2774	0.3147	1.5921	0.3498	0.2895	0.6393		5,443.8486	5,443.8486	0.0396		5,444.6809
Vendor	0.0183	0.1781	0.2395	4.3000e-004	0.0125	2.8500e-003	0.0154	3.5600e-003	2.6200e-003	6.1800e-003		43.2739	43.2739	3.2000e-004		43.2807
Worker	1.0725	1.4412	15.0696	0.0335	2.8168	0.0235	2.8403	0.7470	0.0217	0.7687		2,811.5518	2,811.5518	0.1537		2,814.7790
<b>Total</b>	<b>2.4257</b>	<b>22.6523</b>	<b>31.6593</b>	<b>0.0879</b>	<b>4.1067</b>	<b>0.3411</b>	<b>4.4478</b>	<b>1.1004</b>	<b>0.3138</b>	<b>1.4141</b>		<b>8,298.6743</b>	<b>8,298.6743</b>	<b>0.1936</b>		<b>8,302.7405</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2262	0.0000	0.2262	0.0253	0.0000	0.0253			0.0000			0.0000
Off-Road	0.3304	1.4317	18.4786	0.0270		0.0441	0.0441		0.0441	0.0441	0.0000	2,806.7307	2,806.7307	0.8466		2,824.5095
<b>Total</b>	<b>0.3304</b>	<b>1.4317</b>	<b>18.4786</b>	<b>0.0270</b>	<b>0.2262</b>	<b>0.0441</b>	<b>0.2703</b>	<b>0.0253</b>	<b>0.0441</b>	<b>0.0693</b>	<b>0.0000</b>	<b>2,806.7307</b>	<b>2,806.7307</b>	<b>0.8466</b>		<b>2,824.5095</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	1.3349	21.0331	16.3502	0.0540	1.2774	0.3147	1.5921	0.3498	0.2895	0.6393		5,443.8486	5,443.8486	0.0396		5,444.6809
Vendor	0.0183	0.1781	0.2395	4.3000e-004	0.0125	2.8500e-003	0.0154	3.5600e-003	2.6200e-003	6.1800e-003		43.2739	43.2739	3.2000e-004		43.2807
Worker	1.0725	1.4412	15.0696	0.0335	2.8168	0.0235	2.8403	0.7470	0.0217	0.7687		2,811.5518	2,811.5518	0.1537		2,814.7790
<b>Total</b>	<b>2.4257</b>	<b>22.6523</b>	<b>31.6593</b>	<b>0.0879</b>	<b>4.1067</b>	<b>0.3411</b>	<b>4.4478</b>	<b>1.1004</b>	<b>0.3138</b>	<b>1.4141</b>		<b>8,298.6743</b>	<b>8,298.6743</b>	<b>0.1936</b>		<b>8,302.7405</b>

## 3.4 Paving - 2016

### 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	1.4506	13.5740	10.1130	0.0135		1.0247	1.0247		0.9446	0.9446		1,370.4837	1,370.4837	0.3984		1,378.8501
Paving	0.0346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4852</b>	<b>13.5740</b>	<b>10.1130</b>	<b>0.0135</b>		<b>1.0247</b>	<b>1.0247</b>		<b>0.9446</b>	<b>0.9446</b>		<b>1,370.4837</b>	<b>1,370.4837</b>	<b>0.3984</b>		<b>1,378.8501</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	0.6639	0.8922	9.3288	0.0207	1.7437	0.0146	1.7583	0.4624	0.0134	0.4758		1,740.4845	1,740.4845	0.0951			1,742.4822
<b>Total</b>	<b>0.6639</b>	<b>0.8922</b>	<b>9.3288</b>	<b>0.0207</b>	<b>1.7437</b>	<b>0.0146</b>	<b>1.7583</b>	<b>0.4624</b>	<b>0.0134</b>	<b>0.4758</b>		<b>1,740.4845</b>	<b>1,740.4845</b>	<b>0.0951</b>			<b>1,742.4822</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	0.2402	1.2121	9.8308	0.0135		0.0425	0.0425		0.0425	0.0425	0.0000	1,370.4837	1,370.4837	0.3984			1,378.8501
Paving	0.0346					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>0.2748</b>	<b>1.2121</b>	<b>9.8308</b>	<b>0.0135</b>		<b>0.0425</b>	<b>0.0425</b>		<b>0.0425</b>	<b>0.0425</b>	<b>0.0000</b>	<b>1,370.4837</b>	<b>1,370.4837</b>	<b>0.3984</b>			<b>1,378.8501</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	0.6639	0.8922	9.3288	0.0207	1.7437	0.0146	1.7583	0.4624	0.0134	0.4758		1,740.4845	1,740.4845	0.0951			1,742.4822
<b>Total</b>	<b>0.6639</b>	<b>0.8922</b>	<b>9.3288</b>	<b>0.0207</b>	<b>1.7437</b>	<b>0.0146</b>	<b>1.7583</b>	<b>0.4624</b>	<b>0.0134</b>	<b>0.4758</b>		<b>1,740.4845</b>	<b>1,740.4845</b>	<b>0.0951</b>			<b>1,742.4822</b>

### 3.4 Paving - 2017

#### 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	1.3553	12.7282	10.0379	0.0135		0.9377	0.9377		0.8644	0.8644		1,348.8342	1,348.8342	0.3979		1,357.1908
Paving	0.0346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3899</b>	<b>12.7282</b>	<b>10.0379</b>	<b>0.0135</b>		<b>0.9377</b>	<b>0.9377</b>		<b>0.8644</b>	<b>0.8644</b>		<b>1,348.8342</b>	<b>1,348.8342</b>	<b>0.3979</b>		<b>1,357.1908</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	0.5955	0.8055	8.4118	0.0207	1.7437	0.0140	1.7577	0.4624	0.0129	0.4754		1,673.6396	1,673.6396	0.0878		1,675.4833
<b>Total</b>	<b>0.5955</b>	<b>0.8055</b>	<b>8.4118</b>	<b>0.0207</b>	<b>1.7437</b>	<b>0.0140</b>	<b>1.7577</b>	<b>0.4624</b>	<b>0.0129</b>	<b>0.4754</b>		<b>1,673.6396</b>	<b>1,673.6396</b>	<b>0.0878</b>		<b>1,675.4833</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	0.2401	1.2110	9.8308	0.0135		0.0423	0.0423		0.0423	0.0423	0.0000	1,348.8342	1,348.8342	0.3979		1,357.1908
Paving	0.0346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2747</b>	<b>1.2110</b>	<b>9.8308</b>	<b>0.0135</b>		<b>0.0423</b>	<b>0.0423</b>		<b>0.0423</b>	<b>0.0423</b>	<b>0.0000</b>	<b>1,348.8342</b>	<b>1,348.8342</b>	<b>0.3979</b>		<b>1,357.1908</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	0.5955	0.8055	8.4118	0.0207	1.7437	0.0140	1.7577	0.4624	0.0129	0.4754		1,673.6396	1,673.6396	0.0878			1,675.4833
<b>Total</b>	<b>0.5955</b>	<b>0.8055</b>	<b>8.4118</b>	<b>0.0207</b>	<b>1.7437</b>	<b>0.0140</b>	<b>1.7577</b>	<b>0.4624</b>	<b>0.0129</b>	<b>0.4754</b>		<b>1,673.6396</b>	<b>1,673.6396</b>	<b>0.0878</b>			<b>1,675.4833</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.5661	22.6066	12.5707	0.0206		1.3101	1.3101		1.2340	1.2340		2,027.6449	2,027.6449	0.5272			2,038.7170
<b>Total</b>	<b>2.5661</b>	<b>22.6066</b>	<b>12.5707</b>	<b>0.0206</b>		<b>1.3101</b>	<b>1.3101</b>		<b>1.2340</b>	<b>1.2340</b>		<b>2,027.6449</b>	<b>2,027.6449</b>	<b>0.5272</b>			<b>2,038.7170</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	0.2258	2.1877	3.0688	5.8300e-003	0.1688	0.0343	0.2031	0.0481	0.0316	0.0796		574.7325	574.7325	4.2100e-003			574.8210
Worker	0.5726	0.7745	8.0883	0.0199	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,609.2688	1,609.2688	0.0844			1,611.0416
<b>Total</b>	<b>0.7984</b>	<b>2.9622</b>	<b>11.1570</b>	<b>0.0257</b>	<b>1.8454</b>	<b>0.0478</b>	<b>1.8932</b>	<b>0.4927</b>	<b>0.0440</b>	<b>0.5367</b>		<b>2,184.0013</b>	<b>2,184.0013</b>	<b>0.0886</b>			<b>2,185.8626</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	0.7140	2.6640	12.0171	0.0206		0.1562	0.1562		0.1562	0.1562	0.0000	2,027.6449	2,027.6449	0.5272			2,038.7170
<b>Total</b>	<b>0.7140</b>	<b>2.6640</b>	<b>12.0171</b>	<b>0.0206</b>		<b>0.1562</b>	<b>0.1562</b>		<b>0.1562</b>	<b>0.1562</b>	<b>0.0000</b>	<b>2,027.6449</b>	<b>2,027.6449</b>	<b>0.5272</b>			<b>2,038.7170</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	0.2258	2.1877	3.0688	5.8300e-003	0.1688	0.0343	0.2031	0.0481	0.0316	0.0796		574.7325	574.7325	4.2100e-003			574.8210
Worker	0.5726	0.7745	8.0883	0.0199	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,609.2688	1,609.2688	0.0844			1,611.0416
<b>Total</b>	<b>0.7984</b>	<b>2.9622</b>	<b>11.1570</b>	<b>0.0257</b>	<b>1.8454</b>	<b>0.0478</b>	<b>1.8932</b>	<b>0.4927</b>	<b>0.0440</b>	<b>0.5367</b>		<b>2,184.0013</b>	<b>2,184.0013</b>	<b>0.0886</b>			<b>2,185.8626</b>

### 3.6 Paving 2 - 2017

#### 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	1.2781	12.5797	8.9984	0.0126		0.8390	0.8390		0.7719	0.7719		1,287.9365	1,287.9365	0.3946			1,296.2236
Paving	0.0464					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.3244</b>	<b>12.5797</b>	<b>8.9984</b>	<b>0.0126</b>		<b>0.8390</b>	<b>0.8390</b>		<b>0.7719</b>	<b>0.7719</b>		<b>1,287.9365</b>	<b>1,287.9365</b>	<b>0.3946</b>			<b>1,296.2236</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	0.1069	0.1446	1.5098	3.7100e-003	0.3130	2.5200e-003	0.3155	0.0830	2.3200e-003	0.0853		300.3968	300.3968	0.0158		300.7278
<b>Total</b>	<b>0.1069</b>	<b>0.1446</b>	<b>1.5098</b>	<b>3.7100e-003</b>	<b>0.3130</b>	<b>2.5200e-003</b>	<b>0.3155</b>	<b>0.0830</b>	<b>2.3200e-003</b>	<b>0.0853</b>		<b>300.3968</b>	<b>300.3968</b>	<b>0.0158</b>		<b>300.7278</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	0.1546	0.6699	9.5334	0.0126		0.0206	0.0206		0.0206	0.0206	0.0000	1,287.9365	1,287.9365	0.3946		1,296.236
Paving	0.0464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2010</b>	<b>0.6699</b>	<b>9.5334</b>	<b>0.0126</b>		<b>0.0206</b>	<b>0.0206</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>1,287.9365</b>	<b>1,287.9365</b>	<b>0.3946</b>		<b>1,296.236</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	0.1069	0.1446	1.5098	3.7100e-003	0.3130	2.5200e-003	0.3155	0.0830	2.3200e-003	0.0853		300.3968	300.3968	0.0158		300.7278
<b>Total</b>	<b>0.1069</b>	<b>0.1446</b>	<b>1.5098</b>	<b>3.7100e-003</b>	<b>0.3130</b>	<b>2.5200e-003</b>	<b>0.3155</b>	<b>0.0830</b>	<b>2.3200e-003</b>	<b>0.0853</b>		<b>300.3968</b>	<b>300.3968</b>	<b>0.0158</b>		<b>300.7278</b>

# **Appendix B. 2**

**Construction Emissions – CalEEMod Output (Summer and Winter)**  
*LA Biomed Construction Emissions*

## Harbor UCLA Master Plan- LA BIOMED South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	225.00	1000sqft	5.17	225,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2030
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase -

See AQ Construction Model Inputs

Construction Off-road Equipment Mitigation - Tier 4 Equipment

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	130.00
tblConstructionPhase	NumDays	230.00	183.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	PhaseEndDate	6/30/2023	12/30/2029
tblConstructionPhase	PhaseEndDate	5/29/2030	12/30/2029
tblConstructionPhase	PhaseStartDate	12/31/2022	7/1/2029



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/2/2022	4/19/2022	5	77	
2	Building Construction	Building Construction	4/20/2022	12/30/2022	5	183	
3	Architectural Coating	Architectural Coating	7/1/2029	12/30/2029	5	130	
4	Paving	Paving	8/1/2029	12/30/2029	5	108	
5	Building Construction 2	Building Construction	12/31/2029	11/15/2030	5	230	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 337,500; Non-Residential Outdoor: 112,500 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction 2	Cranes	1	7.00	226	0.29
Building Construction 2	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Building Construction 2	Generator Sets	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	255	0.40

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	1	8.00	46	0.45
Building Construction	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
Building Construction 2	9	72.00	37.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	72.00	37.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	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

Clean Paved Roads

### 3.2 Grading - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1598	0.0000	6.1598	3.3251	0.0000	3.3251			0.0000			0.0000
Off-Road	2.1098	20.6879	21.4529	0.0297		1.0426	1.0426		0.9592	0.9592		2,880.8001	2,880.8001	0.9317		2,900.3660
<b>Total</b>	<b>2.1098</b>	<b>20.6879</b>	<b>21.4529</b>	<b>0.0297</b>	<b>6.1598</b>	<b>1.0426</b>	<b>7.2024</b>	<b>3.3251</b>	<b>0.9592</b>	<b>4.2843</b>		<b>2,880.8001</b>	<b>2,880.8001</b>	<b>0.9317</b>		<b>2,900.3660</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	0.0391	0.0478	0.6073	2.1200e-003	0.1677	1.2800e-003	0.1690	0.0445	1.1900e-003	0.0457		147.7086	147.7086	6.3700e-003		147.8423
<b>Total</b>	<b>0.0391</b>	<b>0.0478</b>	<b>0.6073</b>	<b>2.1200e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.1900e-003</b>	<b>0.0457</b>		<b>147.7086</b>	<b>147.7086</b>	<b>6.3700e-003</b>		<b>147.8423</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					2.4023	0.0000	2.4023	1.2968	0.0000	1.2968			0.0000			0.0000
Off-Road	0.3625	1.5709	19.6566	0.0297		0.0483	0.0483		0.0483	0.0483		2,880.8001	2,880.8001	0.9317		2,900.3660
<b>Total</b>	<b>0.3625</b>	<b>1.5709</b>	<b>19.6566</b>	<b>0.0297</b>	<b>2.4023</b>	<b>0.0483</b>	<b>2.4507</b>	<b>1.2968</b>	<b>0.0483</b>	<b>1.3451</b>	<b>0.0000</b>	<b>2,880.8001</b>	<b>2,880.8001</b>	<b>0.9317</b>		<b>2,900.3660</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	0.0391	0.0478	0.6073	2.1200e-003	0.1677	1.2800e-003	0.1690	0.0445	1.1900e-003	0.0457		147.7086	147.7086	6.3700e-003			147.8423
<b>Total</b>	<b>0.0391</b>	<b>0.0478</b>	<b>0.6073</b>	<b>2.1200e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.1900e-003</b>	<b>0.0457</b>		<b>147.7086</b>	<b>147.7086</b>	<b>6.3700e-003</b>			<b>147.8423</b>

**3.3 Building Construction - 2022**

**Unmitigated Construction On-Site**

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

**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	0.2265	1.6679	2.9221	7.9800e-003	0.2314	0.0343	0.2657	0.0659	0.0316	0.0975		747.5010	747.5010	5.5000e-003			747.6165
Worker	0.1879	0.2292	2.9148	0.0102	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		709.0013	709.0013	0.0306			709.6432
<b>Total</b>	<b>0.4144</b>	<b>1.8971</b>	<b>5.8369</b>	<b>0.0182</b>	<b>1.0362</b>	<b>0.0405</b>	<b>1.0766</b>	<b>0.2793</b>	<b>0.0373</b>	<b>0.3166</b>		<b>1,456.5023</b>	<b>1,456.5023</b>	<b>0.0361</b>			<b>1,457.2597</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	0.4429	2.4584	17.5105	0.0268		0.0711	0.0711		0.0711	0.0711	0.0000	2,543.7497	2,543.7497	0.6085		2,556.5286
<b>Total</b>	<b>0.4429</b>	<b>2.4584</b>	<b>17.5105</b>	<b>0.0268</b>		<b>0.0711</b>	<b>0.0711</b>		<b>0.0711</b>	<b>0.0711</b>	<b>0.0000</b>	<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>		<b>2,556.5286</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	0.2265	1.6679	2.9221	7.9800e-003	0.2314	0.0343	0.2657	0.0659	0.0316	0.0975		747.5010	747.5010	5.5000e-003		747.6165
Worker	0.1879	0.2292	2.9148	0.0102	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		709.0013	709.0013	0.0306		709.6432
<b>Total</b>	<b>0.4144</b>	<b>1.8971</b>	<b>5.8369</b>	<b>0.0182</b>	<b>1.0362</b>	<b>0.0405</b>	<b>1.0766</b>	<b>0.2793</b>	<b>0.0373</b>	<b>0.3166</b>		<b>1,456.5023</b>	<b>1,456.5023</b>	<b>0.0361</b>		<b>1,457.2597</b>

**3.4 Architectural Coating - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.1106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>40.2814</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.0265	0.0320	0.4182	1.9900e-003	0.1565	1.2300e-003	0.1577	0.0415	1.1400e-003	0.0426		128.0861	128.0861	4.8500e-003		128.1881
<b>Total</b>	<b>0.0265</b>	<b>0.0320</b>	<b>0.4182</b>	<b>1.9900e-003</b>	<b>0.1565</b>	<b>1.2300e-003</b>	<b>0.1577</b>	<b>0.0415</b>	<b>1.1400e-003</b>	<b>0.0426</b>		<b>128.0861</b>	<b>128.0861</b>	<b>4.8500e-003</b>		<b>128.1881</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	40.1106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>40.1403</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.0265	0.0320	0.4182	1.9900e-003	0.1565	1.2300e-003	0.1577	0.0415	1.1400e-003	0.0426		128.0861	128.0861	4.8500e-003		128.1881
<b>Total</b>	<b>0.0265</b>	<b>0.0320</b>	<b>0.4182</b>	<b>1.9900e-003</b>	<b>0.1565</b>	<b>1.2300e-003</b>	<b>0.1577</b>	<b>0.0415</b>	<b>1.1400e-003</b>	<b>0.0426</b>		<b>128.0861</b>	<b>128.0861</b>	<b>4.8500e-003</b>		<b>128.1881</b>

### 3.5 Paving - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8973	8.4215	14.2781	0.0223		0.4109	0.4109		0.3781	0.3781		2,159.7967	2,159.7967	0.6985		2,174.4656
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8973</b>	<b>8.4215</b>	<b>14.2781</b>	<b>0.0223</b>		<b>0.4109</b>	<b>0.4109</b>		<b>0.3781</b>	<b>0.3781</b>		<b>2,159.7967</b>	<b>2,159.7967</b>	<b>0.6985</b>		<b>2,174.4656</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	0.0284	0.0343	0.4481	2.1300e-003	0.1677	1.3200e-003	0.1690	0.0445	1.2300e-003	0.0457		137.2352	137.2352	5.2000e-003		137.3443
<b>Total</b>	<b>0.0284</b>	<b>0.0343</b>	<b>0.4481</b>	<b>2.1300e-003</b>	<b>0.1677</b>	<b>1.3200e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.2300e-003</b>	<b>0.0457</b>		<b>137.2352</b>	<b>137.2352</b>	<b>5.2000e-003</b>		<b>137.3443</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	0.2745	1.1895	16.9276	0.0223		0.0366	0.0366		0.0366	0.0366	0.0000	2,159.7967	2,159.7967	0.6985		2,174.4656
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2745</b>	<b>1.1895</b>	<b>16.9276</b>	<b>0.0223</b>		<b>0.0366</b>	<b>0.0366</b>		<b>0.0366</b>	<b>0.0366</b>	<b>0.0000</b>	<b>2,159.7967</b>	<b>2,159.7967</b>	<b>0.6985</b>		<b>2,174.4656</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	0.0284	0.0343	0.4481	2.1300e-003	0.1677	1.3200e-003	0.1690	0.0445	1.2300e-003	0.0457		137.2352	137.2352	5.2000e-003			137.3443
<b>Total</b>	<b>0.0284</b>	<b>0.0343</b>	<b>0.4481</b>	<b>2.1300e-003</b>	<b>0.1677</b>	<b>1.3200e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.2300e-003</b>	<b>0.0457</b>		<b>137.2352</b>	<b>137.2352</b>	<b>5.2000e-003</b>			<b>137.3443</b>

### 3.6 Building Construction 2 - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3615	12.4097	16.0518	0.0269		0.5250	0.5250		0.4939	0.4939		2,545.8905	2,545.8905	0.5975			2,558.4386
<b>Total</b>	<b>1.3615</b>	<b>12.4097</b>	<b>16.0518</b>	<b>0.0269</b>		<b>0.5250</b>	<b>0.5250</b>		<b>0.4939</b>	<b>0.4939</b>		<b>2,545.8905</b>	<b>2,545.8905</b>	<b>0.5975</b>			<b>2,558.4386</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	0.1906	1.2483	2.5778	7.9600e-003	0.2314	0.0326	0.2640	0.0659	0.0300	0.0959		745.8214	745.8214	4.8800e-003			745.9238
Worker	0.1361	0.1646	2.1508	0.0102	0.8048	6.3400e-003	0.8111	0.2134	5.8800e-003	0.2193		658.7287	658.7287	0.0250			659.2529
<b>Total</b>	<b>0.3267</b>	<b>1.4129</b>	<b>4.7287</b>	<b>0.0182</b>	<b>1.0362</b>	<b>0.0389</b>	<b>1.0751</b>	<b>0.2794</b>	<b>0.0359</b>	<b>0.3152</b>		<b>1,404.5501</b>	<b>1,404.5501</b>	<b>0.0298</b>			<b>1,405.1766</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	0.4145	2.3979	17.4884	0.0269		0.0596	0.0596		0.0596	0.0596	0.0000	2,545.8905	2,545.8905	0.5975		2,558.4386
<b>Total</b>	<b>0.4145</b>	<b>2.3979</b>	<b>17.4884</b>	<b>0.0269</b>		<b>0.0596</b>	<b>0.0596</b>		<b>0.0596</b>	<b>0.0596</b>	<b>0.0000</b>	<b>2,545.8905</b>	<b>2,545.8905</b>	<b>0.5975</b>		<b>2,558.4386</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	0.1906	1.2483	2.5778	7.9600e-003	0.2314	0.0326	0.2640	0.0659	0.0300	0.0959		745.8214	745.8214	4.8800e-003		745.9238
Worker	0.1361	0.1646	2.1508	0.0102	0.8048	6.3400e-003	0.8111	0.2134	5.8800e-003	0.2193		658.7287	658.7287	0.0250		659.2529
<b>Total</b>	<b>0.3267</b>	<b>1.4129</b>	<b>4.7287</b>	<b>0.0182</b>	<b>1.0362</b>	<b>0.0389</b>	<b>1.0751</b>	<b>0.2794</b>	<b>0.0359</b>	<b>0.3152</b>		<b>1,404.5501</b>	<b>1,404.5501</b>	<b>0.0298</b>		<b>1,405.1766</b>

**3.6 Building Construction 2 - 2030**

**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	1.3041	7.9179	16.1313	0.0308		0.1476	0.1476		0.1476	0.1476		2,884.8300	2,884.8300	0.1158		2,887.2617
<b>Total</b>	<b>1.3041</b>	<b>7.9179</b>	<b>16.1313</b>	<b>0.0308</b>		<b>0.1476</b>	<b>0.1476</b>		<b>0.1476</b>	<b>0.1476</b>		<b>2,884.8300</b>	<b>2,884.8300</b>	<b>0.1158</b>		<b>2,887.2617</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	0.1886	1.2431	2.5599	7.9600e-003	0.2314	0.0326	0.2640	0.0659	0.0300	0.0959		745.8189	745.8189	4.8800e-003		745.9214
Worker	0.1303	0.1582	2.0819	0.0102	0.8048	6.3400e-003	0.8111	0.2134	5.8800e-003	0.2193		654.5149	654.5149	0.0244		655.0270
<b>Total</b>	<b>0.3189</b>	<b>1.4013</b>	<b>4.6418</b>	<b>0.0182</b>	<b>1.0362</b>	<b>0.0390</b>	<b>1.0752</b>	<b>0.2794</b>	<b>0.0359</b>	<b>0.3153</b>		<b>1,400.3337</b>	<b>1,400.3337</b>	<b>0.0293</b>		<b>1,400.9484</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	0.3865	2.3244	17.4634	0.0308		0.0474	0.0474		0.0474	0.0474	0.0000	2,884.8300	2,884.8300	0.1158		2,887.2617
<b>Total</b>	<b>0.3865</b>	<b>2.3244</b>	<b>17.4634</b>	<b>0.0308</b>		<b>0.0474</b>	<b>0.0474</b>		<b>0.0474</b>	<b>0.0474</b>	<b>0.0000</b>	<b>2,884.8300</b>	<b>2,884.8300</b>	<b>0.1158</b>		<b>2,887.2617</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	0.1886	1.2431	2.5599	7.9600e-003	0.2314	0.0326	0.2640	0.0659	0.0300	0.0959		745.8189	745.8189	4.8800e-003		745.9214
Worker	0.1303	0.1582	2.0819	0.0102	0.8048	6.3400e-003	0.8111	0.2134	5.8800e-003	0.2193		654.5149	654.5149	0.0244		655.0270
<b>Total</b>	<b>0.3189</b>	<b>1.4013</b>	<b>4.6418</b>	<b>0.0182</b>	<b>1.0362</b>	<b>0.0390</b>	<b>1.0752</b>	<b>0.2794</b>	<b>0.0359</b>	<b>0.3153</b>		<b>1,400.3337</b>	<b>1,400.3337</b>	<b>0.0293</b>		<b>1,400.9484</b>

## Harbor UCLA Master Plan- LA BIOMED South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	225.00	1000sqft	5.17	225,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2030
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase -

See AQ Construction Model Inputs

Construction Off-road Equipment Mitigation - Tier 4 Equipment

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	130.00
tblConstructionPhase	NumDays	230.00	183.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	20.00	108.00
tblConstructionPhase	PhaseEndDate	6/30/2023	12/30/2029
tblConstructionPhase	PhaseEndDate	5/29/2030	12/30/2029
tblConstructionPhase	PhaseStartDate	12/31/2022	7/1/2029



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/2/2022	4/19/2022	5	77	
2	Building Construction	Building Construction	4/20/2022	12/30/2022	5	183	
3	Architectural Coating	Architectural Coating	7/1/2029	12/30/2029	5	130	
4	Paving	Paving	8/1/2029	12/30/2029	5	108	
5	Building Construction 2	Building Construction	12/31/2029	11/15/2030	5	230	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 337,500; Non-Residential Outdoor: 112,500 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction 2	Cranes	1	7.00	226	0.29
Building Construction 2	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Building Construction 2	Generator Sets	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	255	0.40

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	1	8.00	46	0.45
Building Construction	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
Building Construction 2	9	72.00	37.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	72.00	37.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	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

Clean Paved Roads

### 3.2 Grading - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.1598	0.0000	6.1598	3.3251	0.0000	3.3251			0.0000				0.0000
Off-Road	2.1098	20.6879	21.4529	0.0297		1.0426	1.0426		0.9592	0.9592		2,880.8001	2,880.8001	0.9317			2,900.3660
<b>Total</b>	<b>2.1098</b>	<b>20.6879</b>	<b>21.4529</b>	<b>0.0297</b>	<b>6.1598</b>	<b>1.0426</b>	<b>7.2024</b>	<b>3.3251</b>	<b>0.9592</b>	<b>4.2843</b>		<b>2,880.8001</b>	<b>2,880.8001</b>	<b>0.9317</b>			<b>2,900.3660</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	0.0398	0.0523	0.5510	1.9900e-003	0.1677	1.2800e-003	0.1690	0.0445	1.1900e-003	0.0457		138.4063	138.4063	6.3700e-003			138.5400
<b>Total</b>	<b>0.0398</b>	<b>0.0523</b>	<b>0.5510</b>	<b>1.9900e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.1900e-003</b>	<b>0.0457</b>		<b>138.4063</b>	<b>138.4063</b>	<b>6.3700e-003</b>			<b>138.5400</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					2.4023	0.0000	2.4023	1.2968	0.0000	1.2968			0.0000				0.0000
Off-Road	0.3625	1.5709	19.6566	0.0297		0.0483	0.0483		0.0483	0.0483	0.0000	2,880.8001	2,880.8001	0.9317			2,900.3660
<b>Total</b>	<b>0.3625</b>	<b>1.5709</b>	<b>19.6566</b>	<b>0.0297</b>	<b>2.4023</b>	<b>0.0483</b>	<b>2.4507</b>	<b>1.2968</b>	<b>0.0483</b>	<b>1.3451</b>	<b>0.0000</b>	<b>2,880.8001</b>	<b>2,880.8001</b>	<b>0.9317</b>			<b>2,900.3660</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	0.0398	0.0523	0.5510	1.9900e-003	0.1677	1.2800e-003	0.1690	0.0445	1.1900e-003	0.0457		138.4063	138.4063	6.3700e-003		138.5400
<b>Total</b>	<b>0.0398</b>	<b>0.0523</b>	<b>0.5510</b>	<b>1.9900e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.1900e-003</b>	<b>0.0457</b>		<b>138.4063</b>	<b>138.4063</b>	<b>6.3700e-003</b>		<b>138.5400</b>

### 3.3 Building Construction - 2022

#### Unmitigated Construction On-Site

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

#### 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	0.2447	1.7060	3.6124	7.9200e-003	0.2314	0.0346	0.2660	0.0659	0.0318	0.0977		741.1568	741.1568	5.7100e-003		741.2767
Worker	0.1909	0.2512	2.6446	9.5400e-003	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		664.3500	664.3500	0.0306		664.9919
<b>Total</b>	<b>0.4356</b>	<b>1.9572</b>	<b>6.2569</b>	<b>0.0175</b>	<b>1.0362</b>	<b>0.0407</b>	<b>1.0769</b>	<b>0.2793</b>	<b>0.0375</b>	<b>0.3169</b>		<b>1,405.5069</b>	<b>1,405.5069</b>	<b>0.0363</b>		<b>1,406.2686</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	0.4429	2.4584	17.5105	0.0268		0.0711	0.0711		0.0711	0.0711	0.0000	2,543.7497	2,543.7497	0.6085		2,556.5286
<b>Total</b>	<b>0.4429</b>	<b>2.4584</b>	<b>17.5105</b>	<b>0.0268</b>		<b>0.0711</b>	<b>0.0711</b>		<b>0.0711</b>	<b>0.0711</b>	<b>0.0000</b>	<b>2,543.7497</b>	<b>2,543.7497</b>	<b>0.6085</b>		<b>2,556.5286</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	0.2447	1.7060	3.6124	7.9200e-003	0.2314	0.0346	0.2660	0.0659	0.0318	0.0977		741.1568	741.1568	5.7100e-003		741.2767
Worker	0.1909	0.2512	2.6446	9.5400e-003	0.8048	6.1500e-003	0.8109	0.2134	5.7100e-003	0.2191		664.3500	664.3500	0.0306		664.9919
<b>Total</b>	<b>0.4356</b>	<b>1.9572</b>	<b>6.2569</b>	<b>0.0175</b>	<b>1.0362</b>	<b>0.0407</b>	<b>1.0769</b>	<b>0.2793</b>	<b>0.0375</b>	<b>0.3169</b>		<b>1,405.5069</b>	<b>1,405.5069</b>	<b>0.0363</b>		<b>1,406.2686</b>

### 3.4 Architectural Coating - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.1106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>40.2814</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.0269	0.0349	0.3752	1.8600e-003	0.1565	1.2300e-003	0.1577	0.0415	1.1400e-003	0.0426		119.8860	119.8860	4.8500e-003		119.9879
<b>Total</b>	<b>0.0269</b>	<b>0.0349</b>	<b>0.3752</b>	<b>1.8600e-003</b>	<b>0.1565</b>	<b>1.2300e-003</b>	<b>0.1577</b>	<b>0.0415</b>	<b>1.1400e-003</b>	<b>0.0426</b>		<b>119.8860</b>	<b>119.8860</b>	<b>4.8500e-003</b>		<b>119.9879</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	40.1106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.7705
<b>Total</b>	<b>40.1403</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.7705</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	0.0269	0.0349	0.3752	1.8600e-003	0.1565	1.2300e-003	0.1577	0.0415	1.1400e-003	0.0426		119.8860	119.8860	4.8500e-003		119.9879
<b>Total</b>	<b>0.0269</b>	<b>0.0349</b>	<b>0.3752</b>	<b>1.8600e-003</b>	<b>0.1565</b>	<b>1.2300e-003</b>	<b>0.1577</b>	<b>0.0415</b>	<b>1.1400e-003</b>	<b>0.0426</b>		<b>119.8860</b>	<b>119.8860</b>	<b>4.8500e-003</b>		<b>119.9879</b>

### 3.5 Paving - 2029

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8973	8.4215	14.2781	0.0223		0.4109	0.4109		0.3781	0.3781		2,159.7967	2,159.7967	0.6985		2,174.4656
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8973</b>	<b>8.4215</b>	<b>14.2781</b>	<b>0.0223</b>		<b>0.4109</b>	<b>0.4109</b>		<b>0.3781</b>	<b>0.3781</b>		<b>2,159.7967</b>	<b>2,159.7967</b>	<b>0.6985</b>		<b>2,174.4656</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	0.0288	0.0374	0.4020	1.9900e-003	0.1677	1.3200e-003	0.1690	0.0445	1.2300e-003	0.0457		128.4493	128.4493	5.2000e-003		128.5585
<b>Total</b>	<b>0.0288</b>	<b>0.0374</b>	<b>0.4020</b>	<b>1.9900e-003</b>	<b>0.1677</b>	<b>1.3200e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.2300e-003</b>	<b>0.0457</b>		<b>128.4493</b>	<b>128.4493</b>	<b>5.2000e-003</b>		<b>128.5585</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	0.2745	1.1895	16.9276	0.0223		0.0366	0.0366		0.0366	0.0366	0.0000	2,159.7967	2,159.7967	0.6985		2,174.4656
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2745</b>	<b>1.1895</b>	<b>16.9276</b>	<b>0.0223</b>		<b>0.0366</b>	<b>0.0366</b>		<b>0.0366</b>	<b>0.0366</b>	<b>0.0000</b>	<b>2,159.7967</b>	<b>2,159.7967</b>	<b>0.6985</b>		<b>2,174.4656</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	0.0288	0.0374	0.4020	1.9900e-003	0.1677	1.3200e-003	0.1690	0.0445	1.2300e-003	0.0457		128.4493	128.4493	5.2000e-003		128.5585
<b>Total</b>	<b>0.0288</b>	<b>0.0374</b>	<b>0.4020</b>	<b>1.9900e-003</b>	<b>0.1677</b>	<b>1.3200e-003</b>	<b>0.1690</b>	<b>0.0445</b>	<b>1.2300e-003</b>	<b>0.0457</b>		<b>128.4493</b>	<b>128.4493</b>	<b>5.2000e-003</b>		<b>128.5585</b>

**3.6 Building Construction 2 - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3615	12.4097	16.0518	0.0269		0.5250	0.5250		0.4939	0.4939		2,545.8905	2,545.8905	0.5975		2,558.4386
<b>Total</b>	<b>1.3615</b>	<b>12.4097</b>	<b>16.0518</b>	<b>0.0269</b>		<b>0.5250</b>	<b>0.5250</b>		<b>0.4939</b>	<b>0.4939</b>		<b>2,545.8905</b>	<b>2,545.8905</b>	<b>0.5975</b>		<b>2,558.4386</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	0.2053	1.2694	3.1938	7.9000e-003	0.2314	0.0328	0.2642	0.0659	0.0302	0.0961		739.4731	739.4731	5.0800e-003		739.5798
Worker	0.1383	0.1797	1.9296	9.5700e-003	0.8048	6.3400e-003	0.8111	0.2134	5.8800e-003	0.2193		616.5565	616.5565	0.0250		617.0806
<b>Total</b>	<b>0.3436</b>	<b>1.4491</b>	<b>5.1234</b>	<b>0.0175</b>	<b>1.0362</b>	<b>0.0392</b>	<b>1.0754</b>	<b>0.2794</b>	<b>0.0361</b>	<b>0.3154</b>		<b>1,356.0296</b>	<b>1,356.0296</b>	<b>0.0300</b>		<b>1,356.6605</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	0.4145	2.3979	17.4884	0.0269		0.0596	0.0596		0.0596	0.0596	0.0000	2,545.8905	2,545.8905	0.5975		2,558.4386
<b>Total</b>	<b>0.4145</b>	<b>2.3979</b>	<b>17.4884</b>	<b>0.0269</b>		<b>0.0596</b>	<b>0.0596</b>		<b>0.0596</b>	<b>0.0596</b>	<b>0.0000</b>	<b>2,545.8905</b>	<b>2,545.8905</b>	<b>0.5975</b>		<b>2,558.4386</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	0.2053	1.2694	3.1938	7.9000e-003	0.2314	0.0328	0.2642	0.0659	0.0302	0.0961		739.4731	739.4731	5.0800e-003		739.5798
Worker	0.1383	0.1797	1.9296	9.5700e-003	0.8048	6.3400e-003	0.8111	0.2134	5.8800e-003	0.2193		616.5565	616.5565	0.0250		617.0806
<b>Total</b>	<b>0.3436</b>	<b>1.4491</b>	<b>5.1234</b>	<b>0.0175</b>	<b>1.0362</b>	<b>0.0392</b>	<b>1.0754</b>	<b>0.2794</b>	<b>0.0361</b>	<b>0.3154</b>		<b>1,356.0296</b>	<b>1,356.0296</b>	<b>0.0300</b>		<b>1,356.6605</b>

### 3.6 Building Construction 2 - 2030

#### 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	1.3041	7.9179	16.1313	0.0308		0.1476	0.1476		0.1476	0.1476		2,884.8300	2,884.8300	0.1158		2,887.2617
<b>Total</b>	<b>1.3041</b>	<b>7.9179</b>	<b>16.1313</b>	<b>0.0308</b>		<b>0.1476</b>	<b>0.1476</b>		<b>0.1476</b>	<b>0.1476</b>		<b>2,884.8300</b>	<b>2,884.8300</b>	<b>0.1158</b>		<b>2,887.2617</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	0.2031	1.2640	3.1717	7.9000e-003	0.2314	0.0329	0.2643	0.0659	0.0303	0.0962		739.4704	739.4704	5.0900e-003		739.5772
Worker	0.1326	0.1726	1.8652	9.5700e-003	0.8048	6.3400e-003	0.8111	0.2134	5.8800e-003	0.2193		612.5259	612.5259	0.0244		613.0381
<b>Total</b>	<b>0.3357</b>	<b>1.4366</b>	<b>5.0369</b>	<b>0.0175</b>	<b>1.0362</b>	<b>0.0392</b>	<b>1.0754</b>	<b>0.2794</b>	<b>0.0361</b>	<b>0.3155</b>		<b>1,351.9963</b>	<b>1,351.9963</b>	<b>0.0295</b>		<b>1,352.6153</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	0.3865	2.3244	17.4634	0.0308		0.0474	0.0474		0.0474	0.0474	0.0000	2,884.8300	2,884.8300	0.1158		2,887.2617
<b>Total</b>	<b>0.3865</b>	<b>2.3244</b>	<b>17.4634</b>	<b>0.0308</b>		<b>0.0474</b>	<b>0.0474</b>		<b>0.0474</b>	<b>0.0474</b>	<b>0.0000</b>	<b>2,884.8300</b>	<b>2,884.8300</b>	<b>0.1158</b>		<b>2,887.2617</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	0.2031	1.2640	3.1717	7.9000e-003	0.2314	0.0329	0.2643	0.0659	0.0303	0.0962		739.4704	739.4704	5.0900e-003		739.5772
Worker	0.1326	0.1726	1.8652	9.5700e-003	0.8048	6.3400e-003	0.8111	0.2134	5.8800e-003	0.2193		612.5259	612.5259	0.0244		613.0381
<b>Total</b>	<b>0.3357</b>	<b>1.4366</b>	<b>5.0369</b>	<b>0.0175</b>	<b>1.0362</b>	<b>0.0392</b>	<b>1.0754</b>	<b>0.2794</b>	<b>0.0361</b>	<b>0.3155</b>		<b>1,351.9963</b>	<b>1,351.9963</b>	<b>0.0295</b>		<b>1,352.6153</b>

# **Appendix B. 3**

## **Localized Significance Threshold Analysis**

Harbor-UCLA Medical Center Campus Master Plan  
 Localized Significance Thresholds Analysis

Maximum Mitigated On-Site (Localized) Construction Emissions

Construction Phase	Emissions (pounds per day)							
	NOx	CO	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
On-Site Emissions								
2016	1.43	18.48	0.26	0.04	0.29	0.0392	0.04	0.07
2017	2.66	25.50	0.25	0.16	0.31	0.0375	0.16	0.16
2018	9.50	82.11	2.62	0.40	3.02	1.32243	0.40	1.73
2019	10.61	82.05	2.62	0.48	3.04	1.32243	0.48	1.79
2020	13.10	86.00	2.56	0.56	3.12	1.3137	0.56	1.88
<b>2021</b>	<b>52.64</b>	<b>106.21</b>	<b>4.09</b>	<b>2.53</b>	<b>6.29</b>	<b>1.546</b>	<b>2.40</b>	<b>3.62</b>
2022	15.82	78.59	1.44	0.67	2.12	0.2184	0.67	0.89
2023	15.39	97.83	2.78	0.55	3.12	1.3383	0.55	1.68
<b>2024</b>	<b>11.99</b>	<b>86.91</b>	<b>0.23</b>	<b>0.39</b>	<b>0.62</b>	<b>0.02556</b>	<b>0.39</b>	<b>0.41</b>
2025	7.38	46.24	0.02	0.23	0.25	0.00326	0.23	0.23
2026	3.91	19.16	-	0.12	0.12	0	0.12	0.12
2027	3.03	20.71	-	0.10	0.10	0	0.10	0.10
2028	2.78	16.75	-	0.09	0.09	0	0.09	0.09
2029	2.90	18.58	-	0.09	0.09	0	0.09	0.09
2030	2.20	24.86	-	0.07	0.07	0	0.07	0.07
2021 (pounds per day)	52.64	106.21	4.09	2.53	6.29	1.55	2.40	3.62
<b>2021 (grams per second) <sup>a</sup></b>	<b>0.83</b>	<b>1.67</b>	<b>0.06</b>	<b>0.04</b>	<b>0.10</b>	<b>0.02</b>	<b>0.04</b>	<b>0.06</b>
2022 (pounds per day)	11.99	86.91	0.23	0.39	0.62	0.03	0.39	0.41
<b>2022 (pounds per day)</b>	<b>0.19</b>	<b>1.37</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>

Notes:

a. Converted to grams per second assuming a total of 8-hours of emissions generating activity from active construction equipment usage.

Note: Bold indicates maximum daily emissions.

Source: PCR Services Corporation, 2016

**Harbor-UCLA Medical Center Campus Master Plan  
Localized Significance Thresholds Analysis**

**AERMOD Source Characteristics**

Emission Source	Source Type	Number of Sources	Release Height (m)	Length of Side X (m)	Length of Side Y (m)	Initial Lateral (m)	Initial Vertical (m)	Plume Height (m)	Plume Width (m)	Exit Temp (°F)	Inside Diameter (ft)	Exit Flow Rate (ft <sup>3</sup> /s)
Source Group 1 Phase 1 On-Site HD Construction Equip	Volume	10	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 2 Phase 2 On-Site HD Construction Equip	Volume	6	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 3 Phase 3 On-Site HD Construction Equip	Volume	9	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 4 Phase 4 On-Site HD Construction Equip	Volume	8	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 5 Phase 5 On-Site HD Construction Equip	Volume	20	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 6 Phase 6 On-Site HD Construction Equip	Volume	9	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 7 Phase C On-Site HD Construction Equip	Volume	11	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a

Source: PCR Services Corporation, 2016

Harbor-UCLA Medical Center Campus Master Plan  
Localized Significance Thresholds Analysis

AERMOD Source Emission Rates

Construction Phase	CO	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	No. Of Sources	Aermod Input (grams per second)			
									NOx	CO	Exhaust PM10	Exhaust PM2.5
<b>2021</b>												
<b>Phase C- Building Construction</b>	18.3521		0.1134	0.1134		0.1134	0.1134	11				
Conversion to g/s	2.89E-01	0.00E+00	1.79E-03	1.79E-03	0.00E+00	1.79E-03	1.79E-03					
Idling truck emissions	3.07E-04		1.34E-06			1.28E-06						
<b>Total</b>	<b>2.89E-01</b>	<b>0.00E+00</b>	<b>1.79E-03</b>	<b>1.79E-03</b>	<b>0.00E+00</b>	<b>1.79E-03</b>	<b>1.79E-03</b>		<b>4.24E-03</b>	<b>2.63E-02</b>	<b>1.62E-04</b>	<b>1.62E-04</b>
<b>Phase2- Building Construction 2</b>	8.767		0.0222	0.0222		0.0222	0.0222	6				
Conversion to g/s	1.38E-01	0.00E+00	3.50E-04	3.50E-04	0.00E+00	3.50E-04	3.50E-04					
Idling truck emissions	4.49E-04		1.95E-06			1.87E-06						
<b>Total</b>	<b>1.39E-01</b>	<b>0.00E+00</b>	<b>3.52E-04</b>	<b>3.50E-04</b>	<b>0.00E+00</b>	<b>3.52E-04</b>	<b>3.50E-04</b>		<b>2.56E-03</b>	<b>2.31E-02</b>	<b>5.86E-05</b>	<b>5.86E-05</b>
<b>Phase 3 Building Construction</b>	37.1211	1.4424	0.4264	1.8688	0.2184	0.4264	0.6448	9				
Conversion to g/s	5.85E-01	2.27E-02	6.72E-03	2.94E-02	3.44E-03	6.72E-03	1.02E-02					
Idling truck emissions	1.02E-03		4.42E-06			4.23E-06						
<b>Total</b>	<b>5.86E-01</b>	<b>2.27E-02</b>	<b>6.72E-03</b>	<b>2.94E-02</b>	<b>3.44E-03</b>	<b>6.72E-03</b>	<b>1.02E-02</b>		<b>1.62E-02</b>	<b>6.51E-02</b>	<b>7.47E-04</b>	<b>7.47E-04</b>
<b>Phase 6 Demolition</b>	40.2995	1.4424	1.9641	3.4065	0.2184	1.8347	2.0531	9				
Conversion to g/s	6.35E-01	2.27E-02	3.09E-02	5.37E-02	3.44E-03	2.89E-02	3.23E-02					
Idling truck emissions	1.44E-03		6.27E-06			6.00E-06						
<b>Total</b>	<b>6.36E-01</b>	<b>2.27E-02</b>	<b>3.09E-02</b>	<b>5.37E-02</b>	<b>3.44E-03</b>	<b>2.89E-02</b>	<b>3.23E-02</b>		<b>7.22E-02</b>	<b>7.07E-02</b>	<b>3.44E-03</b>	<b>3.21E-03</b>

Construction Phase	CO	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	No. Of Sources	Aermod Input (grams per second)			
									NOx	CO	Exhaust PM10	Exhaust PM2.5
<b>2024</b>												
<b>Phase 4 Building Construction</b>	35.8252		0.2197	0.2197		0.2197	0.2197	8				
Conversion to g/s	5.64E-01	0.00E+00	3.46E-03	3.46E-03	0.00E+00	3.46E-03	3.46E-03					
Idling truck emissions	1.03E-03		1.03E-06			9.90E-07						
<b>Total</b>	<b>5.65E-01</b>	<b>0.00E+00</b>	<b>3.46E-03</b>	<b>3.46E-03</b>	<b>0.00E+00</b>	<b>3.46E-03</b>	<b>3.46E-03</b>		<b>1.42E-02</b>	<b>7.07E-02</b>	<b>4.33E-04</b>	<b>4.33E-04</b>
<b>Phase 5 Grading</b>	18.7096	0.0215	0.0446	0.0661	0.00326	0.0446	0.0478	20				
<b>Phase 5 Building Construction</b>	15.4728		0.0839	0.0839		0.0839	0.0839					
Conversion to g/s	2.95E-01	3.39E-04	7.02E-04	1.04E-03	5.13E-05	7.02E-04	7.53E-04					
Idling truck emissions	2.44E-01	0.00E+00	1.32E-03	1.32E-03	0.00E+00	1.32E-03	1.32E-03					
<b>Total</b>	<b>5.40E-01</b>	<b>3.39E-04</b>	<b>2.03E-03</b>	<b>2.36E-03</b>	<b>5.13E-05</b>	<b>2.03E-03</b>	<b>2.07E-03</b>	<b>3.79E-03</b>	<b>2.70E-02</b>	<b>1.01E-04</b>	<b>1.01E-04</b>	
<b>Phase 6 Grading</b>	16.9046	0.2068	0.0407	0.2475	0.0223	0.0407	0.063	9				
Conversion to g/s	2.66E-01	3.26E-03	6.41E-04	3.90E-03	3.51E-04	6.41E-04	9.92E-04					
Idling truck emissions	5.21E-05		5.24E-08			5.01E-08						
<b>Total</b>	<b>2.66E-01</b>	<b>3.26E-03</b>	<b>6.41E-04</b>	<b>3.90E-03</b>	<b>3.51E-04</b>	<b>6.41E-04</b>	<b>9.92E-04</b>		<b>2.36E-03</b>	<b>2.96E-02</b>	<b>7.12E-05</b>	<b>7.12E-05</b>

**Harbor-UCLA Medical Center Campus Master Plan  
Localized Significance Thresholds Analysis**

**LST Impacts: Unmitigated Construction**

Source	Project Concentrations ( $\mu\text{g}/\text{m}^3$ )			
	NO <sub>2</sub>	CO	PM10	PM2.5
<b>Project On-Site Construction Emissions<sup>a</sup></b>				
1-hour average	86.1	273.1	—	—
1-hour average (3-year avg of 98th per.)	50.9	—	—	—
8-hour average	—	42.66	—	—
24-hour average	—	—	0.87	0.34
<b>Background<sup>b</sup></b>				
1-hour average	163.6	3,548	—	—
1-hour average (3-year avg of 98th per.)	112.2	—	—	—
8-hour average	—	2,861	—	—
24-hour average	—	—	—	—
<b>Total (Project + Background)</b>				
1-hour average	249.7	3,821	—	—
1-hour average (3-year avg of 98th per.)	163.0	—	—	—
8-hour average	—	2,904	—	—
24-hour average	—	—	0.87	0.34
<b>Localized Significance Thresholds</b>				
1-hour average	339.0	23,000	—	—
1-hour average (3-year avg of 98th per.)	188.0	—	—	—
8-hour average	—	10,000	—	—
24-hour average	—	—	10.4	10.4
<b>Exceeds Thresholds?</b>				
1-hour average	NO	NO	—	—
1-hour average (3-year avg of 98th per.)	NO	—	—	—
8-hour average	—	NO	—	—
24-hour average	—	—	NO	NO

	Project NOx (1-hr 98th Percentile) ( $\mu\text{g}/\text{m}^3$ )		
	Grad.	Grad./Util.	Ut./S.P./B.C.
1-hr 98th per.	181.8	219.9	17.06
3-year avg.	139.6		

	Background NOx (1-hr 98th Percentile) ( $\mu\text{g}/\text{m}^3$ )		
	2012	2013	2014
1-hr 98th per.	103.4	109.0	124.1
3-year avg.	112.2		

Notes:

- Project concentrations are based on the results from the AERMOD dispersion model. NO<sub>2</sub> concentrations are based on Ambient Ratio Method (ARM) conversion from NO<sub>x</sub> emissions.
- Background concentrations are based on the maximum of the most recent three years for which data is available from the SCAQMD for the Long Beach Monitoring Station (2011-2013). See SCAQMD website: <http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year>. The 1-hour CO concentration is based on data from the same time period from the USEPA. See USEPA website: [http://www.epa.gov/airdata/ad\\_rep\\_mon.html](http://www.epa.gov/airdata/ad_rep_mon.html).

Source: PCR Services Corporation, 2016

Harbor UCLA  
 Draft Environmental Impact Report  
 Construction Localized Significance Threshold Assessment

On-Road Truck On-Site Idling Emissions

Construction Phase	Source	Year	Daily Number of Trucks	Work Hours per Day (hours/day)	Idling Time per Truck (minutes)	Idling Emissions Factor (grams/hour)				Emissions Rate for AERMOD (grams/second)					
						NOX	CO	PM10	PM2.5	NOX	CO	PM10	PM2.5		
<b>Scenario A</b>															
Phase C Building Construction	Idling HHDT Trucks	2021	13	8	15	24.2738	2.7217	0.0118	0.0113	2.74E-03	3.07E-04	1.34E-06	1.28E-06		
Phase 2 Building Construction 2	Idling HHDT Trucks	2021	19	8	15	24.2738	2.7217	0.0118	0.0113	4.00E-03	4.49E-04	1.95E-06	1.87E-06		
Phase 3 Demolition	Idling HHDT Trucks	2021	9	8	15	24.2738	2.7217	0.0118	0.0113	1.90E-03	2.13E-04	9.26E-07	8.86E-07		
Phase 3 Grading	Idling HHDT Trucks	2021	34	8	15	24.2738	2.7217	0.0118	0.0113	7.16E-03	8.03E-04	3.50E-06	3.35E-06		
										<b>9.06E-03</b>	<b>1.02E-03</b>	<b>4.42E-06</b>	<b>4.23E-06</b>		
Phase 6 Demolition	Idling HHDT Trucks	2021	61	8	15	24.2738	2.7217	0.0118	0.0113	1.29E-02	1.44E-03	6.27E-06	6.00E-06		
<b>Scenario B</b>															
Phase 4 Building Construction	Idling HHDT Trucks	2024	79	8	15	12.4390	1.5000	0.0015	0.0014	8.53E-03	1.03E-03	1.03E-06	9.90E-07		
Phase 5 Grading	Idling HHDT Trucks	2024	41	8	15	12.4390	1.5000	0.0015	0.0014	4.43E-03	5.34E-04	5.37E-07	5.14E-07		
Phase 5 Building Construction	Idling HHDT Trucks	2024	77	8	15	12.4390	1.5000	0.0015	0.0014	8.31E-03	1.00E-03	1.01E-06	9.65E-07		
										<b>1.27E-02</b>	<b>1.54E-03</b>	<b>1.55E-06</b>	<b>1.48E-06</b>		
Phase 6 Grading	Idling HHDT Trucks	2024	4	8	15	12.4390	1.5000	0.0015	0.0014	4.32E-04	5.21E-05	5.24E-08	5.01E-08		

Source: PCR Services Corporation, 2016

**Appendix B. 4**  
**Construction Health Risk Assessment Calculations**

Harbor UCLA  
Draft Environmental Impact Report  
Construction Health Risk Assessment

Off-Road Heavy-Duty Construction Equipment Emission Rates

Construction Phase	DPM Source	Year	Annual DPM Emissions <sup>a</sup> (pounds/year)	Work Days per Year (days/year)	Work Hours per Day (hours/day)	Emissions Rate during Work Period (grams/second)
<b>Off-Road Equipment</b>						
<b>Source Group 1</b>						
Phase 1	Off-Road Equipment	Year 2	0.92	14	8	1.03E-03
Phase 1	Off-Road Equipment	Year 3	9.56	173	8	8.70E-04
Phase 1	Off-Road Equipment	Year 5	24.96	237	8	1.66E-03
Phase 1	Off-Road Equipment	Year 6	1.62	13	8	1.96E-03
<b>Emissions Rate Averaged over Project Construction</b>						<b>1.07E-04</b>
<b>Source Group 2</b>						
Phase 2	Off-Road Equipment	Year 6	6.48	248	8	4.12E-04
Phase 2	Off-Road Equipment	Year 7	10.5	129	8	1.28E-03
Phase 2	Off-Road Equipment	Year 8	31.6	202	8	2.46E-03
<b>Emissions Rate Averaged over Project Construction</b>						<b>1.40E-04</b>
<b>Source Group 3</b>						
Phase 3	Off-Road Equipment	Year 6	22.12	254	8	1.37E-03
Phase 3	Off-Road Equipment	Year 7	25.4	260	8	1.54E-03
Phase 3	Off-Road Equipment	Year 8	7.98	62	8	2.03E-03
<b>Emissions Rate Averaged over Project Construction</b>						<b>1.60E-04</b>
<b>Source Group 4</b>						
Phase 4	Off-Road Equipment	Year 8	16.54	198	8	1.32E-03
Phase 4	Off-Road Equipment	Year 9	55.38	262	8	3.33E-03
Phase 4	Off-Road Equipment	Year 10	27.72	261	8	1.67E-03
Phase 4	Off-Road Equipment	Year 11	2.36	22	8	1.69E-03
Phase 4	Off-Road Equipment	Year 12	13.66	162	8	1.33E-03
<b>Emissions Rate Averaged over Project Construction</b>						<b>3.33E-04</b>
<b>Source Group 5</b>						
Phase 5	Off-Road Equipment	Year 9	13.74	107	8	2.02E-03
Phase 5	Off-Road Equipment	Year 10	10.46	261	8	6.31E-04
Phase 5	Off-Road Equipment	Year 11	2.96	261	8	1.79E-04
Phase 5	Off-Road Equipment	Year 12	1.2	106	8	1.78E-04
Phase 5	Off-Road Equipment	Year 13	12.92	152	8	1.34E-03
Phase 5	Off-Road Equipment	Year 14	9.18	261	8	5.54E-04
Phase 5	Off-Road Equipment	Year 15	0.78	80	8	1.54E-04
<b>Emissions Rate Averaged over Project Construction</b>						<b>1.47E-04</b>

<b>Source Group 6</b>						
Phase 6	Off-Road Equipment	Year 6	14.08	33	8	6.72E-03
Phase 6	Off-Road Equipment	Year 7	30.2	260	8	1.83E-03
Phase 6	Off-Road Equipment	Year 8	32.56	260	8	1.97E-03
Phase 6	Off-Road Equipment	Year 9	18.38	93	8	3.11E-03
<b>Emissions Rate Averaged over Project Construction</b>						<b>2.74E-04</b>
<b>Source Group 7</b>						
Phase C	Off-Road Equipment	Year 3	18.76	88	8	3.36E-03
Phase C	Off-Road Equipment	Year 4	76.3	261	8	4.60E-03
Phase C	Off-Road Equipment	Year 5	86.08	262	8	5.17E-03
Phase C	Off-Road Equipment	Year 6	40.18	261	8	2.42E-03
Phase C	Off-Road Equipment	Year 7	27.58	260	8	1.67E-03
Phase C	Off-Road Equipment	Year 8	7.58	62	8	1.93E-03
<b>Emissions Rate Averaged over Project Construction</b>						<b>7.38E-04</b>
<b>Source Group 8</b>						
Phase M	Off-Road Equipment	Year 1	4.9	128	8	6.03E-04
Phase M	Off-Road Equipment	Year 2	18.88	225	8	1.32E-03
<b>Emissions Rate Averaged over Project Construction</b>						<b>6.84E-05</b>
<b>Source Group 9</b>						
BIOMED	Off-Road Equipment	Year 7	16.74	260	8	1.01E-03
BIOMED	Off-Road Equipment	Year 14	4.54	131	8	5.46E-04
BIOMED	Off-Road Equipment	Year 15	10.84	229	8	7.46E-04
<b>Emissions Rate Averaged over Project Construction</b>						<b>9.24E-05</b>
<b>Maximum 12-Month Emissions (for Chronic HI analysis)</b>						
	<i>Off-Road Equipment</i>	<i>Yr.5/Ph. 1</i>	<i>25.0</i>	<i>261</i>	<i>8</i>	<i>1.51E-03</i>
		<i>Yr. 5/Ph. C</i>	<i>86.1</i>	<i>261</i>	<i>8</i>	<i>5.19E-03</i>

Notes:

a. California Air Resources Board, California Emissions Estimator Model (CalEEMod).

Source: PCR Services Corporation, 2016

**Idling Construction Haul, Concrete, and Vendor Truck Emission Rates**

Construction Phase	DPM Source	Year	Total Number of Trucks	Work Days per Year (days/year)	Work Hours per Day (hours/day)	Idling Time per Truck (minutes)	DPM Idling Emissions Factor <sup>a</sup> (grams/min)	Emissions Rate during Work Period (grams/second)
<b>On-Road Trucks</b>								
<b>Source Group 1</b>								
Phase 1	Idling HHDT Trucks	Year 2	433	14	8	15	1.05E-04	1.70E-06
Phase 1	Idling HHDT Trucks	Year 3	5341	173	8	15	7.87E-05	1.27E-06
Phase 1	Idling HHDT Trucks	Year 5	7316	237	8	15	9.37E-06	1.51E-07
Phase 1	Idling HHDT Trucks	Year 6	402	13	8	15	8.23E-06	1.33E-07
<b>Emissions Rate Averaged over Project Construction</b>								<b>5.12E-08</b>
<b>Source Group 2</b>								
Phase 2	Idling HHDT Trucks	Year 6	4289	248	8	15	8.23E-06	7.41E-08
Phase 2	Idling HHDT Trucks	Year 7	2231	129	8	15	7.09E-06	6.38E-08
Phase 2	Idling HHDT Trucks	Year 8	3494	202	8	15	1.08E-06	9.77E-09
<b>Emissions Rate Averaged over Project Construction</b>								<b>5.22E-09</b>
<b>Source Group 3</b>								
Phase 3	Idling HHDT Trucks	Year 6	6138	254	8	15	8.23E-06	1.04E-07
Phase 3	Idling HHDT Trucks	Year 7	6283	260	8	15	7.09E-06	8.92E-08
Phase 3	Idling HHDT Trucks	Year 8	1499	62	8	15	1.08E-06	1.37E-08
<b>Emissions Rate Averaged over Project Construction</b>								<b>9.19E-09</b>
<b>Source Group 4</b>								
Phase 4	Idling HHDT Trucks	Year 8	11453	198	8	15	1.08E-06	3.27E-08
Phase 4	Idling HHDT Trucks	Year 9	15155	262	8	15	1.05E-06	3.16E-08
Phase 4	Idling HHDT Trucks	Year 10	15097	261	8	15	1.02E-06	3.06E-08
Phase 4	Idling HHDT Trucks	Year 11	1273	22	8	15	9.87E-07	2.98E-08
Phase 4	Idling HHDT Trucks	Year 12	9371	162	8	15	9.64E-07	2.90E-08
<b>Emissions Rate Averaged over Project Construction</b>								<b>5.13E-09</b>
<b>Source Group 5</b>								
Phase 5	Idling HHDT Trucks	Year 9	8772	107	8	15	1.05E-06	4.47E-08
Phase 5	Idling HHDT Trucks	Year 10	21398	261	8	15	1.02E-06	4.33E-08
Phase 5	Idling HHDT Trucks	Year 11	21398	261	8	15	9.87E-07	4.22E-08
Phase 5	Idling HHDT Trucks	Year 12	8691	106	8	15	9.64E-07	4.12E-08
Phase 5	Idling HHDT Trucks	Year 13	12462	152	8	15	9.43E-07	4.03E-08
Phase 5	Idling HHDT Trucks	Year 14	21398	261	8	15	9.26E-07	3.95E-08
Phase 5	Idling HHDT Trucks	Year 15	6559	80	8	15	9.12E-07	3.89E-08
<b>Emissions Rate Averaged over Project Construction</b>								<b>9.32E-09</b>
<b>Source Group 6</b>								
Phase 6	Idling HHDT Trucks	Year 6	2925	33	8	15	8.23E-06	3.80E-07
Phase 6	Idling HHDT Trucks	Year 7	23039	260	8	15	7.09E-06	3.27E-07
Phase 6	Idling HHDT Trucks	Year 8	23039	260	8	15	1.08E-06	5.01E-08
Phase 6	Idling HHDT Trucks	Year 9	8241	93	8	15	1.05E-06	4.84E-08
<b>Emissions Rate Averaged over Project Construction</b>								<b>2.10E-08</b>

<b>Source Group 7</b>								
Phase C	Idling HHDT Trucks	Year 3	1367	88	8	15	7.87E-05	6.37E-07
Phase C	Idling HHDT Trucks	Year 4	4052	261	8	15	7.03E-05	5.68E-07
Phase C	Idling HHDT Trucks	Year 5	4068	262	8	15	9.37E-06	7.58E-08
Phase C	Idling HHDT Trucks	Year 6	4052	261	8	15	8.23E-06	6.65E-08
Phase C	Idling HHDT Trucks	Year 7	4037	260	8	15	7.09E-06	5.73E-08
Phase C	Idling HHDT Trucks	Year 8	963	62	8	15	1.08E-06	8.78E-09
<b>Emissions Rate Averaged over Project Construction</b>							<b>4.69E-08</b>	
<b>Source Group 8</b>								
Phase M	Idling HHDT Trucks	Year 1	1446	128	8	15	1.35E-04	7.95E-07
Phase M	Idling HHDT Trucks	Year 2	2542	225	8	15	1.05E-04	6.20E-07
<b>Emissions Rate Averaged over Project Construction</b>							<b>4.41E-08</b>	
<b>Source Group 9</b>								
BIOMED	Idling HHDT Trucks	Year 7	1607	260	8	15	7.09E-06	2.28E-08
BIOMED	Idling HHDT Trucks	Year 14	810	131	8	15	9.26E-07	2.98E-09
BIOMED	Idling HHDT Trucks	Year 15	1415	229	8	15	9.12E-07	2.93E-09
<b>Emissions Rate Averaged over Project Construction</b>							<b>1.28E-09</b>	
<i>Maximum 12-Month Emissions (for Chronic HI analysis)</i>	<i>On-Road MHDT/HHDT Trucks</i>	<i>Yr.5/Ph. 1</i>	<i>7316</i>	<i>237</i>	<i>8</i>	<i>15</i>	<i>9.37E-06</i>	<i>1.51E-07</i>
		<i>Yr. 5/Ph. C</i>	<i>4068</i>	<i>262</i>	<i>8</i>	<i>15</i>	<i>9.37E-06</i>	<i>7.58E-08</i>

Notes:

a. California Air Resources Board, EMFAC2014 on-road vehicle emissions model.

Source: PCR Services Corporation, 2016

**On-Road Travel Construction Haul, Concrete, and Vendor Truck Emission Rates**

Construction Phase	DPM Source	Year	Total One-Way Truck Trips	Work Days per Year (days/year)	Work Hours per Day (hours/day)	Avg. One-Way Trip Distance per Day <sup>a</sup> (miles)	DPM Running Emissions Factor <sup>b</sup> (grams/mile)	Emissions Rate during Work Period (grams/second)
<b>On-Road Trucks</b>								
<b>Source Group 1</b>								
Phase 1	Idling HHDT Trucks	Year 2	866	14	8	1.01	7.10E-02	1.54E-04
Phase 1	Idling HHDT Trucks	Year 3	10682	173	8	1.01	3.74E-02	8.08E-05
Phase 1	Idling HHDT Trucks	Year 5	14632	237	8	1.01	1.90E-02	4.11E-05
Phase 1	Idling HHDT Trucks	Year 6	804	13	8	1.01	1.69E-02	3.66E-05
<b>Source Group 2</b>								
Phase 2	Idling HHDT Trucks	Year 6	8578	248	8	1.01	1.69E-02	2.05E-05
Phase 2	Idling HHDT Trucks	Year 7	4462	129	8	1.01	1.45E-02	1.75E-05
Phase 2	Idling HHDT Trucks	Year 8	6988	202	8	1.01	4.58E-03	5.54E-06
<b>Source Group 3</b>								
Phase 3	Idling HHDT Trucks	Year 6	12276	254	8	1.01	1.69E-02	2.86E-05
Phase 3	Idling HHDT Trucks	Year 7	12566	260	8	1.01	1.45E-02	2.44E-05
Phase 3	Idling HHDT Trucks	Year 8	2998	62	8	1.01	4.58E-03	7.75E-06
<b>Source Group 4</b>								
Phase 4	Idling HHDT Trucks	Year 8	22906	198	8	1.01	4.58E-03	1.85E-05
Phase 4	Idling HHDT Trucks	Year 9	30310	262	8	1.01	4.55E-03	1.84E-05
Phase 4	Idling HHDT Trucks	Year 10	30194	261	8	1.01	4.52E-03	1.83E-05
Phase 4	Idling HHDT Trucks	Year 11	2546	22	8	1.01	4.50E-03	1.82E-05
Phase 4	Idling HHDT Trucks	Year 12	18742	162	8	1.01	4.47E-03	1.81E-05
<b>Source Group 5</b>								
Phase 5	Idling HHDT Trucks	Year 9	17544	107	8	1.01	4.55E-03	2.61E-05
Phase 5	Idling HHDT Trucks	Year 10	42796	261	8	1.01	4.52E-03	2.59E-05
Phase 5	Idling HHDT Trucks	Year 11	42796	261	8	1.01	4.50E-03	2.58E-05
Phase 5	Idling HHDT Trucks	Year 12	17382	106	8	1.01	4.47E-03	2.57E-05
Phase 5	Idling HHDT Trucks	Year 13	24924	152	8	1.01	4.46E-03	2.56E-05
Phase 5	Idling HHDT Trucks	Year 14	42796	261	8	1.01	4.44E-03	2.55E-05
Phase 5	Idling HHDT Trucks	Year 15	13118	80	8	1.01	4.43E-03	2.54E-05
<b>Source Group 6</b>								
Phase 6	Idling HHDT Trucks	Year 6	5850	33	8	1.01	1.69E-02	1.05E-04
Phase 6	Idling HHDT Trucks	Year 7	46078	260	8	1.01	1.45E-02	8.96E-05
Phase 6	Idling HHDT Trucks	Year 8	46078	260	8	1.01	4.58E-03	2.84E-05
Phase 6	Idling HHDT Trucks	Year 9	16482	93	8	1.01	4.55E-03	2.82E-05

<b>Source Group 7</b>										
Phase C	Idling HHDT Trucks	Year 3	2734	88	8	1.01	3.74E-02	4.06E-05		
Phase C	Idling HHDT Trucks	Year 4	8104	261	8	1.01	3.29E-02	3.58E-05		
Phase C	Idling HHDT Trucks	Year 5	8136	262	8	1.01	1.90E-02	2.07E-05		
Phase C	Idling HHDT Trucks	Year 6	8104	261	8	1.01	1.69E-02	1.84E-05		
Phase C	Idling HHDT Trucks	Year 7	8074	260	8	1.01	1.45E-02	1.57E-05		
Phase C	Idling HHDT Trucks	Year 8	1926	62	8	1.01	4.58E-03	4.98E-06		
<b>Source Group 8</b>										
Phase M	Idling HHDT Trucks	Year 1	2892	128	8	1.01	1.17E-01	9.27E-05		
Phase M	Idling HHDT Trucks	Year 2	5084	225	8	1.01	7.10E-02	5.61E-05		
<b>Source Group 9</b>										
BIOMED	Idling HHDT Trucks	Year 7	3214	260	8	1.01	1.45E-02	6.25E-06		
BIOMED	Idling HHDT Trucks	Year 14	1620	131	8	1.01	4.44E-03	1.92E-06		
BIOMED	Idling HHDT Trucks	Year 15	2830	229	8	1.01	4.43E-03	1.91E-06		
<b>Emissions Rate Averaged over Project Construction</b>									<b>3.44E-05</b>	
<i>Maximum 12-Month Emissions (for Chronic HI analysis)</i>	<i>Idling MHDT/HHDT Trucks</i>	<i>Yr.5/Ph. 1</i>	<i>14632</i>	<i>237</i>	<i>8</i>	<i>1.01</i>	<i>1.90E-02</i>	<i>4.11E-05</i>		
		<i>Yr. 5/Ph. C</i>	<i>8136</i>	<i>262</i>	<i>8</i>	<i>1.01</i>	<i>1.90E-02</i>	<i>2.07E-05</i>		
		<b>Emissions Rate Averaged over Period</b>								<b>4.15E-05</b>

Notes:

- a. The portion of the average on-road trip length within a 1/4 mile of the Project site.
- b. California Air Resources Board, EMFAC2014 on-road vehicle emissions model.

Source: PCR Services Corporation, 2016

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**AERMOD Source Characteristics**

Emission Source	Source Type	Number of Sources	Length of Line (m)	Source Group Unitized Emission Rate (g/s)	Release Height (m)	Length of Side X (m)	Length of Side Y (m)	Initial Lateral (m)	Initial Vertical (m)	Plume Height (m)	Plume Width (m)	Exit Temp (°F)	Inside Diameter (ft)	Exit Flow Rate (ft <sup>3</sup> /s)
Source Group 1 Phase 1 On-Site HD Construction Equip	Volume	10		0.1000	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 2 Phase 2 On-Site HD Construction Equip	Volume	6		0.1667	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 3 Phase 3 On-Site HD Construction Equip	Volume	9		0.1111	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 4 Phase 4 On-Site HD Construction Equip	Volume	8		0.1250	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 5 Phase 5 On-Site HD Construction Equip	Volume	20		0.0500	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 6 Phase 6 On-Site HD Construction Equip	Volume	9		0.1111	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 7 Phase C On-Site HD Construction Equip	Volume	11		0.0909	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 8 Phase M On-Site HD Construction Equip	Volume	8		0.1250	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 9 BioMed On-Site HD Construction Equip	Volume	4		0.2500	5	50	50	11.63	1.16	n/a	n/a	n/a	n/a	n/a
Source Group 10 Off-Site Haul and Vendor Trucks 1	Line-Volume	1	2421.3	0.5728	5	12	12	n/a	n/a	10.2	18.0	n/a	n/a	n/a
Off-Site Haul and Vendor Trucks 2	Line-Volume	1	780.4	0.1846	5	12	12	n/a	n/a	10.2	18.0	n/a	n/a	n/a
Off-Site Haul and Vendor Trucks 3	Line-Volume	1	284.6	0.0673	5	6	6	n/a	n/a	10.2	12.0	n/a	n/a	n/a
Off-Site Haul and Vendor Trucks 4	Line-Volume	1	741.1	0.1753	5	6	6	n/a	n/a	10.2	12.0	n/a	n/a	n/a

Source: PCR Services Corporation, 2016

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AERMOD Dispersion Modeling Results - Maximum Impacted Receptors

ID #	Discrete Receptor	Receptor Coordinates		Source Groups - Unitized Maximum Concentrations (µg/m³)									
		X	Y	1	2	3	4	5	6	7	8	9	10
				Concentration (AVERAGE CONC) [µg/m³]									
1350	UCART1	380260	3743840	0.5497	0.4426	3.2699	1.7932	0.6145	0.3373	6.9062	1.4056	1.3185	1.1393
4382	UCART1	380450	3744250	2.7753	2.1123	1.6928	1.9393	2.2657	1.2287	1.3407	4.4125	1.2528	1.7063
2073	UCART1	380620	3744040	0.4235	0.3176	1.8200	1.9777	8.7098	0.2469	1.4470	0.8998	0.5904	1.3697
1384	UCART1	379790	3743850	0.2514	0.2759	0.2063	0.1929	0.0988	1.3346	0.6588	0.1778	0.6224	0.7523
1820	UCART1	379740	3743960	0.2695	0.3061	0.1762	0.1704	0.0903	1.5354	0.4016	0.1777	0.5067	1.1564

On-Site Heavy Duty Construction Equipment and On-Site Truck Idling DPM

Source Groups - Maximum DPM Concentrations (Unitized Rate × Project DPM Emissions Rate) (µg/m³)										Total	Receptor Location
1	2	3	4	5	6	7	8	9	10		
Concentration (AVERAGE CONC) [µg/m³]											
5.86E-05	6.18E-05	5.22E-04	5.97E-04	9.06E-05	9.24E-05	5.10E-03	9.62E-05	1.22E-04	3.92E-05	6.78E-03	SOUTH
2.96E-04	2.95E-04	2.70E-04	6.45E-04	3.34E-04	3.37E-04	9.89E-04	3.02E-04	1.16E-04	5.86E-05	3.64E-03	NORTH
4.52E-05	4.44E-05	2.91E-04	6.58E-04	1.28E-03	6.76E-05	1.07E-03	6.16E-05	5.46E-05	4.71E-05	3.62E-03	EAST
2.68E-05	3.86E-05	3.29E-05	6.42E-05	1.46E-05	3.66E-04	4.86E-04	1.22E-05	5.75E-05	2.58E-05	1.12E-03	
2.87E-05	4.28E-05	2.81E-05	5.67E-05	1.33E-05	4.21E-04	2.96E-04	1.22E-05	4.68E-05	3.97E-05	9.85E-04	WEST

Off-Site Truck Roadway Travel DPM

Source Groups - Maximum DPM Concentrations			Total	Receptor Location
1	7	10		
8.28E-04	3.59E-02	4.73E-05	3.67E-02	SOUTH
4.18E-03	6.96E-03	7.08E-05	1.12E-02	NORTH
6.38E-04	7.52E-03	5.68E-05	8.21E-03	EAST
3.79E-04	3.42E-03	3.12E-05	3.83E-03	WEST
4.06E-04	2.09E-03	4.80E-05	2.54E-03	

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Maximum Individual Cancer Risk Calculations - Sensitive Receptors located North of the Project Site

Cancer Risk Calculations

Parameter	Age Bins				Total 30 Year Exposure	Age Bin	Total 70 Year Exposure	Age Bin
	3rd Trimester	0 < 2	2 < 16	16 < 30		31 < 70		16 and Over (70 Year Lifetime)
DBR Daily Breathing Rate (L/kg (body weight) per day)	361	1090	745	335	<b>30.25</b>	290	<b>70.25</b>	335
A Inhalation absorption factor (default = 1).	1	1	1	1		1		1
EF Exposure Frequency (days/year)	350	350	350	350		350		350
ED Exposure Duration (years)	0.25	2	14	14		40		70
FAH Fraction of Time at Home	1	0.85	0.72	0.73		0.73		0.73
AT Averaged Exposure Time Period (days)	25550	25550	25550	25550		25550		25550
ASF Age Sensitivity Factor	10	10	3	1		1		1
CONC Toxic Air Contaminant Concentration ( $\mu\text{g}/\text{m}^3$ )	3.64E-03	3.64E-03	3.38E-03	0.00E+00		0		7.81E-04
DOSE [= CONC × DBR × A × EF × ED × FAH / AT] (mg/kg-d)	4.50E-03	9.25E-02	3.48E-01	0.00E+00	0.00E+00	1.83E-01		
CPF Cancer Potency Factor ( $\text{mg}/\text{kg-d}$ ) <sup>-1</sup> Diesel Particulate Matter	1.1	1.1	1.1	1.1	1.1	1.1		
<b>RISK</b> Cancer Risk (in one million) [= DOSE × CPF × ASF]	4.95E-02	1.02E+00	1.15E+00	0.00E+00	<b>2.22E+00</b>	0.00E+00	<b>2.22E+00</b>	<b>2.01E-01</b>

Source: PCR Services Corporation, 2016

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Maximum Individual Cancer Risk Calculations - Sensitive Receptors located South of the Project Site

Cancer Risk Calculations

Parameter		Age Bins				Total 30 Year Exposure	Age Bin	Total 70 Year Exposure	Age Bin
		3rd Trimester	0 < 2	2 < 16	16 < 30		31 < 70		16 and Over (70 Year Lifetime)
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	745	335	<b>30.25</b>	<b>70.25</b>	290	335
A	Inhalation absorption factor (default = 1).	1	1	1	1			1	1
EF	Exposure Frequency (days/year)	350	350	350	350			350	350
ED	Exposure Duration (years)	0.25	2	14	14			40	70
FAH	Fraction of Time at Home	1	0.85	0.72	0.73			0.73	0.73
AT	Averaged Exposure Time Period (days)	25550	25550	25550	25550			25550	25550
ASF	Age Sensitivity Factor	10	10	3	1			1	1
CONC	Toxic Air Contaminant Concentration ( $\mu\text{g}/\text{m}^3$ )	6.78E-03	6.78E-03	6.29E-03	0.00E+00			0	1.45E-03
DOSE	$[= \text{CONC} \times \text{DBR} \times \text{A} \times \text{EF} \times \text{ED} \times \text{FAH} / \text{AT}]$ (mg/kg-d)	8.38E-03	1.72E-01	6.47E-01	0.00E+00	0.00E+00	3.40E-01		
CPF	Cancer Potency Factor ( $\text{mg}/\text{kg-d}$ ) <sup>-1</sup> Diesel Particulate Matter	1.1	1.1	1.1	1.1	1.1	1.1		
RISK	Cancer Risk (in one million) $[= \text{DOSE} \times \text{CPF} \times \text{ASF}]$	9.21E-02	1.89E+00	2.14E+00	0.00E+00	<b>4.12E+00</b>	0.00E+00	<b>4.12E+00</b>	<b>3.74E-01</b>

Source: PCR Services Corporation, 2016

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Maximum Individual Cancer Risk Calculations - Sensitive Receptors located East of the Project Site

Cancer Risk Calculations

Parameter	Age Bins				Total 30 Year Exposure	Age Bin	Total 70 Year Exposure	Age Bin
	3rd Trimester	0 < 2	2 < 16	16 < 30		31 < 70		16 and Over (70 Year Lifetime)
DBR Daily Breathing Rate (L/kg (body weight) per day)	361	1090	745	335	30.25	290	70.25	335
A Inhalation absorption factor (default = 1).	1	1	1	1		1		1
EF Exposure Frequency (days/year)	350	350	350	350		350		350
ED Exposure Duration (years)	0.25	2	14	14		40		70
FAH Fraction of Time at Home	1	0.85	0.72	0.73		0.73		0.73
AT Averaged Exposure Time Period (days)	25550	25550	25550	25550		25550		25550
ASF Age Sensitivity Factor	10	10	3	1		1		1
CONC Toxic Air Contaminant Concentration ( $\mu\text{g}/\text{m}^3$ )	3.62E-03	3.62E-03	3.36E-03	0.00E+00		0		7.76E-04
DOSE [= CONC × DBR × A × EF × ED × FAH / AT] (mg/kg-d)	4.48E-03	9.19E-02	3.46E-01	0.00E+00	0.00E+00	1.82E-01		
CPF Cancer Potency Factor (mg/kg-d) <sup>-1</sup> Diesel Particulate Matter	1.1	1.1	1.1	1.1	1.1	1.1		
RISK Cancer Risk (in one million) [= DOSE × CPF × ASF]	4.92E-02	1.01E+00	1.14E+00	0.00E+00	2.20E+00	0.00E+00	2.20E+00	2.00E-01

Source: PCR Services Corporation, 2016

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Maximum Individual Cancer Risk Calculations - Sensitive Receptors located West of the Project Site

Cancer Risk Calculations

Parameter	Age Bins				Total 30 Year Exposure	Age Bin	Total 70 Year Exposure	Age Bin
	3rd Trimester	0 < 2	2 < 16	16 < 30		31 < 70		16 and Over (70 Year Lifetime)
DBR Daily Breathing Rate (L/kg (body weight) per day)	361	1090	745	335	<b>30.25</b>	290	<b>70.25</b>	335
A Inhalation absorption factor (default = 1).	1	1	1	1		1		1
EF Exposure Frequency (days/year)	350	350	350	350		350		350
ED Exposure Duration (years)	0.25	2	14	14		40		70
FAH Fraction of Time at Home	1	0.85	0.72	0.73		0.73		0.73
AT Averaged Exposure Time Period (days)	25550	25550	25550	25550		25550		25550
ASF Age Sensitivity Factor	10	10	3	1		1		1
CONC Toxic Air Contaminant Concentration ( $\mu\text{g}/\text{m}^3$ )	9.85E-04	9.85E-04	9.15E-04	0.00E+00		0		2.11E-04
DOSE [= CONC × DBR × A × EF × ED × FAH / AT] (mg/kg-d)	1.22E-03	2.50E-02	9.41E-02	0.00E+00	0.00E+00	4.95E-02		
CPF Cancer Potency Factor ( $\text{mg}/\text{kg-d}$ ) <sup>-1</sup> Diesel Particulate Matter	1.1	1.1	1.1	1.1	1.1	1.1		
<b>RISK</b> Cancer Risk (in one million) [= DOSE × CPF × ASF]	1.34E-02	2.75E-01	3.11E-01	0.00E+00	<b>5.99E-01</b>	0.00E+00	<b>5.99E-01</b>	<b>5.45E-02</b>

Source: PCR Services Corporation, 2016

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Maximum Non-cancer Chronic Hazards / Toxicological Endpoints\*

Receptor Group	Pollutant	CREL <sup>1</sup>	CONC	WFrac	CONC <sub>WF</sub>	HI	ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	Threshold	Over?
MEI Sensitive - North	DPM	5.00E+00	1.12E-02	1.00E+00	1.12E-02	2.24E-03	-	-	-	-	-	-	-	-	-	-	-	2.24E-03	-	1.0	NO
MEI Sensitive - South	DPM	5.00E+00	3.67E-02	1.00E+00	3.67E-02	7.35E-03	-	-	-	-	-	-	-	-	-	-	-	7.35E-03	-	1.0	NO
MEI Sensitive - East	DPM	5.00E+00	8.21E-03	1.00E+00	8.21E-03	1.64E-03	-	-	-	-	-	-	-	-	-	-	-	1.64E-03	-	1.0	NO
MEI Sensitive - West	DPM	5.00E+00	3.83E-03	1.00E+00	3.83E-03	7.66E-04	-	-	-	-	-	-	-	-	-	-	-	7.66E-04	-	1.0	NO

Sources:

- California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values" and "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," <http://www.arb.ca.gov/toxics/healthval/healthval.htm>.  
 Tables last updated: January 30, 2014. Downloaded 03/13/2014.

Where:

CONC<sub>WF</sub> Pollutant Concentration (µg/m<sup>3</sup>) multiplied by the weight fraction  
 CREL Chronic Reference Exposure Level  
 HI Hazard Index  
 MEI Maximally Exposed Individual  
 WFrac Weight fraction of speciated component

\* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

**Haul/Concrete Truck Running Emission Factors (Aggregate Model Year, Aggregate Speeds)**

EMFAC2014 (v1.0.7) Emission Rates

Region Type: Air Basin

Region: South Coast

Calendar Year: 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030

Season: Annual

Vehicle Classification: EMFAC2011 Categories

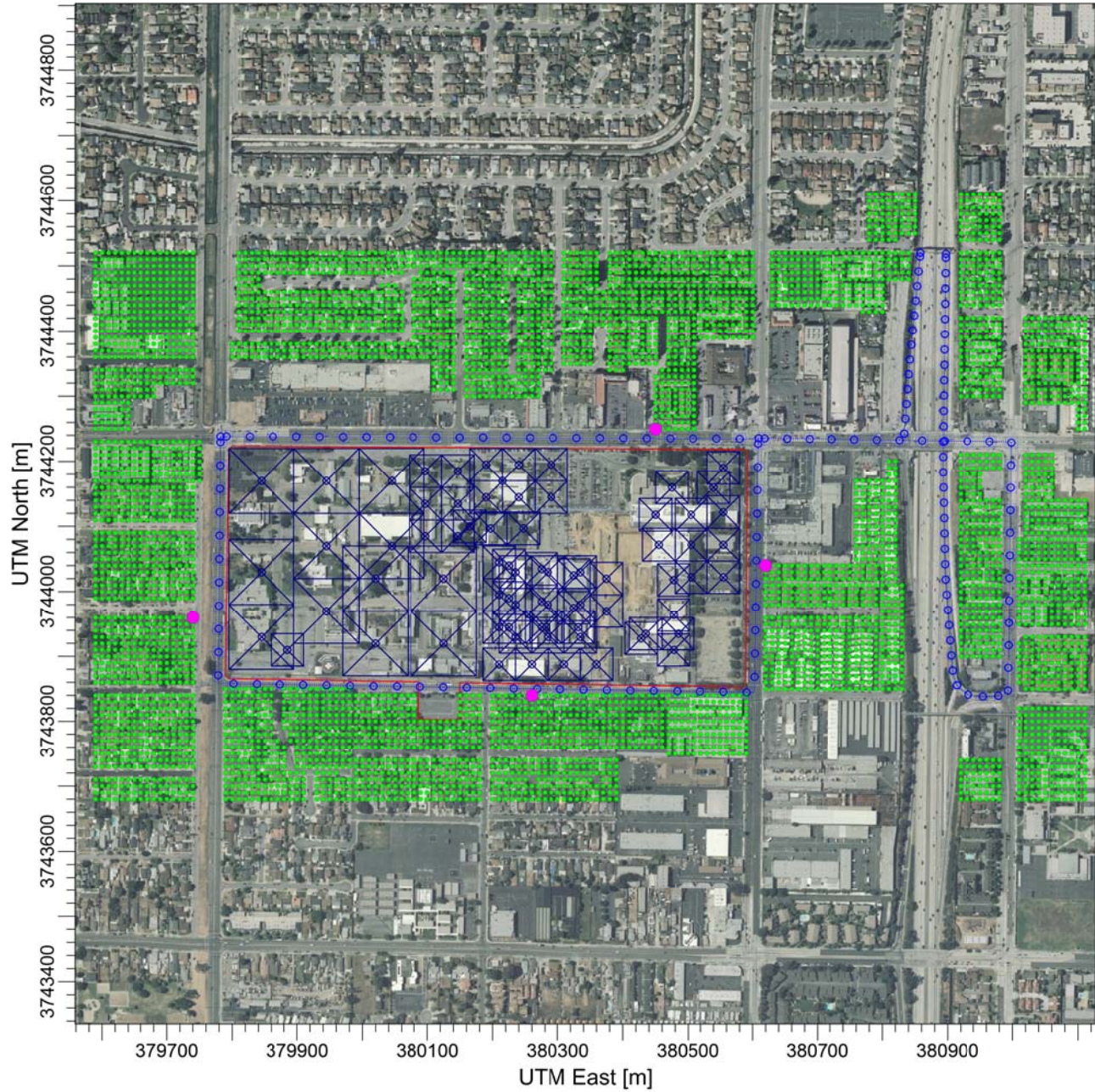
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	CalYr	VehClass	MdYr	Speed	Fuel	CO_RUNEX	CO_IDLEX	NOx_RUNEX	NOx_IDLEX	PM10_RUNEX	PM10_IDLEX	PM10_PMTW	PM10_PMBW	PM2_5_RUNEX	PM2_5_IDLEX	PM2_5_PMTW	PM2_5_PMBW
South Coast	2016	T7 single construction	Aggregated	Aggregated	DSL	0.970788	6.789040	7.767023	32.342953	0.117347	0.194448	0.036000	0.061740	0.112271	0.186037	0.009000	0.026460
South Coast	2017	T7 single construction	Aggregated	Aggregated	DSL	0.698729	5.889665	6.345112	31.444264	0.070980	0.151723	0.036000	0.061740	0.067909	0.145159	0.009000	0.026460
South Coast	2018	T7 single construction	Aggregated	Aggregated	DSL	0.505607	5.053253	5.219644	30.340212	0.037409	0.113362	0.036000	0.061740	0.035790	0.108458	0.009000	0.026460
South Coast	2019	T7 single construction	Aggregated	Aggregated	DSL	0.474801	4.753761	4.763364	29.205020	0.032926	0.101170	0.036000	0.061740	0.031502	0.096793	0.009000	0.026460
South Coast	2020	T7 single construction	Aggregated	Aggregated	DSL	0.390243	2.801042	3.927058	25.290221	0.019017	0.013496	0.036000	0.061740	0.018194	0.012912	0.009000	0.026460
South Coast	2021	T7 single construction	Aggregated	Aggregated	DSL	0.388843	2.721714	3.453765	24.273771	0.016932	0.011848	0.036000	0.061740	0.016200	0.011335	0.009000	0.026460
South Coast	2022	T7 single construction	Aggregated	Aggregated	DSL	0.384582	2.632193	3.043259	23.104238	0.014450	0.010206	0.036000	0.061740	0.013825	0.009764	0.009000	0.026460
South Coast	2023	T7 single construction	Aggregated	Aggregated	DSL	0.330843	1.500788	1.135382	12.456420	0.004582	0.001562	0.036000	0.061740	0.004383	0.001495	0.009000	0.026460
South Coast	2024	T7 single construction	Aggregated	Aggregated	DSL	0.340174	1.499964	1.142091	12.438961	0.004554	0.001509	0.036000	0.061740	0.004357	0.001444	0.009000	0.026460
South Coast	2025	T7 single construction	Aggregated	Aggregated	DSL	0.342682	1.499159	1.128159	12.422643	0.004522	0.001462	0.036000	0.061740	0.004327	0.001398	0.009000	0.026460
South Coast	2026	T7 single construction	Aggregated	Aggregated	DSL	0.344866	1.498393	1.115405	12.408150	0.004497	0.001422	0.036000	0.061740	0.004303	0.001360	0.009000	0.026460
South Coast	2027	T7 single construction	Aggregated	Aggregated	DSL	0.346573	1.497699	1.100997	12.395660	0.004474	0.001388	0.036000	0.061740	0.004280	0.001328	0.009000	0.026460
South Coast	2028	T7 single construction	Aggregated	Aggregated	DSL	0.348216	1.497030	1.089017	12.384346	0.004457	0.001358	0.036000	0.061740	0.004264	0.001299	0.009000	0.026460
South Coast	2029	T7 single construction	Aggregated	Aggregated	DSL	0.349579	1.496415	1.077720	12.374511	0.004444	0.001333	0.036000	0.061740	0.004251	0.001276	0.009000	0.026460
South Coast	2030	T7 single construction	Aggregated	Aggregated	DSL	0.350253	1.495890	1.061702	12.366435	0.004426	0.001313	0.036000	0.061740	0.004235	0.001256	0.009000	0.026460

Source: California Air Resources Board, EMFAC2014, <http://www.arb.ca.gov/emfac/2014/>. Accessed February 2016.

PROJECT TITLE:

C:\AERMOD\Projects\HUCLA\_Con\HRA\HRA.isc



COMMENTS:

SOURCES:

**89**

COMPANY NAME:

**PCR Services Corporation**

RECEPTORS:

**5619**

SCALE:

1:9,856

0  0.3 km

DATE:

**3/2/2016**

PROJECT NO.:

# **Appendix B. 5**

## **Operational Emissions – CalEEMod Output (Summer and Winter)**

- Existing Operations
- Interim Operations
- Full Build-Out Operations

# **Appendix B. 5**

**Operational Emissions – CalEEMod Output (Summer and Winter)**  
*Existing Operations*

**Harbor-UCLA Medical Center (Existing Operations)**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.43	1000sqft	0.54	23,435.00	0
Hospital	373.00	Bed	6.13	266,977.58	0
Medical Office Building	327.30	1000sqft	7.51	327,304.00	0
Research & Development	94.75	1000sqft	2.18	94,754.00	0
Library	22.50	1000sqft	0.52	22,500.00	0
General Light Industry	112.72	1000sqft	2.59	112,719.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	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>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -  
 Land Use -  
 Vehicle Trips - See Traffic Study  
 Energy Mitigation -  
 Energy Use - See "Existing and Project Operational Inputs (Existing Elec Existing NG)

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	4.29	4.63
tblEnergyUse	LightingElect	5.60	5.99
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	4.29	4.63
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	2.23	2.38
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	5.62	6.30
tblEnergyUse	T24E	10.44	11.85
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	5.62	6.30
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	0.79	0.89
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	10.54	12.44
tblEnergyUse	T24NG	55.22	63.57
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	10.54	12.44
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	0.88	1.04
tblLandUse	LandUseSquareFeet	23,430.00	23,435.00
tblLandUse	LandUseSquareFeet	327,300.00	327,304.00
tblLandUse	LandUseSquareFeet	94,750.00	94,754.00
tblLandUse	LandUseSquareFeet	112,720.00	112,719.00
tblLandUse	LandUseSquareFeet	45,400.00	45,402.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	18.60

tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	10.14
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	18.60
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	10.14
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	18.60
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	10.14
tblVehicleTrips	WD_TR	2.59	3.56

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	23.3639	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004		0.2317
Energy	0.8512	7.7379	6.4998	0.0464		0.5881	0.5881		0.5881	0.5881		9,285.4789	9,285.4789	0.1780	0.1702	9,341.9888
Mobile	73.5359	199.9619	831.2718	1.9010	124.5582	2.9094	127.4676	33.3040	2.6746	35.9786		167,471.5220	167,471.5220	6.9839		167,618.1844
<b>Total</b>	<b>97.7510</b>	<b>207.7008</b>	<b>837.8763</b>	<b>1.9475</b>	<b>124.5582</b>	<b>3.4978</b>	<b>128.0560</b>	<b>33.3040</b>	<b>3.2631</b>	<b>36.5671</b>		<b>176,757.2195</b>	<b>176,757.2195</b>	<b>7.1625</b>	<b>0.1702</b>	<b>176,960.4048</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	73.5359	199.9619	831.2718	1.9010	124.5582	2.9094	127.4676	33.3040	2.6746	35.9786		167,471.5220	167,471.5220	6.9839		167,618.1844
Unmitigated	73.5359	199.9619	831.2718	1.9010	124.5582	2.9094	127.4676	33.3040	2.6746	35.9786		167,471.5220	167,471.5220	6.9839		167,618.1844

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	169.08	169.08	169.08	748,733	748,733
General Office Building	435.80	435.80	435.80	1,403,906	1,403,906
Hospital	4,826.62	4,826.62	4,826.62	18,712,042	18,712,042
Library	1,265.40	1,265.40	1,265.40	3,194,737	3,194,737
Medical Office Building	11,825.35	11,825.35	11,825.35	30,673,282	30,673,282
Research & Development	960.77	960.77	960.77	3,246,089	3,246,089
Unrefrigerated Warehouse-No Rail	161.62	161.62	161.62	692,675	692,675
<b>Total</b>	<b>19,644.64</b>	<b>19,644.64</b>	<b>19,644.64</b>	<b>58,671,465</b>	<b>58,671,465</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

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

## 5.0 Energy Detail

### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8512	7.7379	6.4998	0.0464		0.5881	0.5881		0.5881	0.5881		9,285.4789	9,285.4789	0.1780	0.1702	9,341.9888
NaturalGas Unmitigated	0.8512	7.7379	6.4998	0.0464		0.5881	0.5881		0.5881	0.5881		9,285.4789	9,285.4789	0.1780	0.1702	9,341.9888

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.823756	8.8800e-003	0.0808	0.0678	4.8000e-004		6.1400e-003	6.1400e-003		6.1400e-003	6.1400e-003		96.9125	96.9125	1.8600e-003	1.7800e-003	97.5023
Hospital	53.6808	0.5789	5.2628	4.4208	0.0316		0.4000	0.4000		0.4000	0.4000		6,315.3859	6,315.3859	0.1210	0.1158	6,353.8202
Library	1.25075	0.0135	0.1226	0.1030	7.4000e-004		9.3200e-003	9.3200e-003		9.3200e-003	9.3200e-003		147.1475	147.1475	2.8200e-003	2.7000e-003	148.0430
Medical Office Building	11.505	0.1241	1.1279	0.9475	6.7700e-003		0.0857	0.0857		0.0857	0.0857		1,353.5247	1,353.5247	0.0259	0.0248	1,361.7620
Research & Development	5.26728	0.0568	0.5164	0.4338	3.1000e-003		0.0393	0.0393		0.0393	0.0393		619.6805	619.6805	0.0119	0.0114	623.4517
Unrefrigerated Warehouse-No Rail	0.133096	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6584	15.6584	3.0000e-004	2.9000e-004	15.7537
General Light Industry	6.26594	0.0676	0.6143	0.5160	3.6900e-003		0.0467	0.0467		0.0467	0.0467		737.1695	737.1695	0.0141	0.0135	741.6558

Total		0.8512	7.7379	6.4998	0.0464		0.5881	0.5881		0.5881	0.5881		9,285.4789	9,285.4789	0.1780	0.1702	9,341.9888
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## 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	23.3639	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004			0.2317
Unmitigated	23.3639	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004			0.2317

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	5.6705					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	17.6832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	0.0102	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004			0.2317
Total	23.3639	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004			0.2317

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

## 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 Vegetation

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## Harbor-UCLA Medical Center (Existing Operations)

Los Angeles-South Coast County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.43	1000sqft	0.54	23,435.00	0
Hospital	373.00	Bed	6.13	266,977.58	0
Medical Office Building	327.30	1000sqft	7.51	327,304.00	0
Research & Development	94.75	1000sqft	2.18	94,754.00	0
Library	22.50	1000sqft	0.52	22,500.00	0
General Light Industry	112.72	1000sqft	2.59	112,719.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	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>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use -

Vehicle Trips - See Traffic Study

Energy Mitigation -

Energy Use - See "Existing and Project Operational Inputs (Existing Elec Existing NG)

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	4.29	4.63
tblEnergyUse	LightingElect	5.60	5.99
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	4.29	4.63
tblEnergyUse	LightingElect	3.55	3.85
tblEnergyUse	LightingElect	2.23	2.38
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	5.62	6.30
tblEnergyUse	T24E	10.44	11.85
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	5.62	6.30
tblEnergyUse	T24E	2.75	3.09
tblEnergyUse	T24E	0.79	0.89
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	10.54	12.44
tblEnergyUse	T24NG	55.22	63.57
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	10.54	12.44
tblEnergyUse	T24NG	14.36	15.84
tblEnergyUse	T24NG	0.88	1.04
tblLandUse	LandUseSquareFeet	23,430.00	23,435.00
tblLandUse	LandUseSquareFeet	327,300.00	327,304.00
tblLandUse	LandUseSquareFeet	94,750.00	94,754.00
tblLandUse	LandUseSquareFeet	112,720.00	112,719.00
tblLandUse	LandUseSquareFeet	45,400.00	45,402.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	18.60

tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	10.14
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	18.60
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	10.14
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	18.60
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	10.14
tblVehicleTrips	WD_TR	2.59	3.56

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	23.3639	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004		0.2317
Energy	0.8512	7.7379	6.4998	0.0464		0.5881	0.5881		0.5881	0.5881		9,285.4789	9,285.4789	0.1780	0.1702	9,341.9888
Mobile	77.4027	210.8071	834.4254	1.8150	124.5582	2.9226	127.4808	33.3040	2.6868	35.9908		160,118.4719	160,118.4719	6.9893		160,265.2461
<b>Total</b>	<b>101.6178</b>	<b>218.5460</b>	<b>841.0299</b>	<b>1.8614</b>	<b>124.5582</b>	<b>3.5111</b>	<b>128.0693</b>	<b>33.3040</b>	<b>3.2753</b>	<b>36.5793</b>		<b>169,404.1695</b>	<b>169,404.1695</b>	<b>7.1678</b>	<b>0.1702</b>	<b>169,607.4665</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	77.4027	210.8071	834.4254	1.8150	124.5582	2.9226	127.4808	33.3040	2.6868	35.9908		160,118.4719	160,118.4719	6.9893		160,265.2461
Unmitigated	77.4027	210.8071	834.4254	1.8150	124.5582	2.9226	127.4808	33.3040	2.6868	35.9908		160,118.4719	160,118.4719	6.9893		160,265.2461

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	169.08	169.08	169.08	748,733	748,733
General Office Building	435.80	435.80	435.80	1,403,906	1,403,906
Hospital	4,826.62	4,826.62	4,826.62	18,712,042	18,712,042
Library	1,265.40	1,265.40	1,265.40	3,194,737	3,194,737
Medical Office Building	11,825.35	11,825.35	11,825.35	30,673,282	30,673,282
Research & Development	960.77	960.77	960.77	3,246,089	3,246,089
Unrefrigerated Warehouse-No Rail	161.62	161.62	161.62	692,675	692,675
<b>Total</b>	<b>19,644.64</b>	<b>19,644.64</b>	<b>19,644.64</b>	<b>58,671,465</b>	<b>58,671,465</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

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

## 5.0 Energy Detail

### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.8512	7.7379	6.4998	0.0464		0.5881	0.5881		0.5881	0.5881		9,285.4789	9,285.4789	0.1780	0.1702	9,341.9888
Natural Gas Unmitigated	0.8512	7.7379	6.4998	0.0464		0.5881	0.5881		0.5881	0.5881		9,285.4789	9,285.4789	0.1780	0.1702	9,341.9888

### 5.2 Energy by Land Use - Natural Gas

#### 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					
General Office Building	0.823756	8.8800e-003	0.0808	0.0678	4.8000e-004		6.1400e-003	6.1400e-003		6.1400e-003	6.1400e-003		96.9125	96.9125	1.8600e-003	1.7800e-003	97.5023
Hospital	53.6808	0.5789	5.2628	4.4208	0.0316		0.4000	0.4000		0.4000	0.4000		6,315.3859	6,315.3859	0.1210	0.1158	6,353.8202
Library	1.25075	0.0135	0.1226	0.1030	7.4000e-004		9.3200e-003	9.3200e-003		9.3200e-003	9.3200e-003		147.1475	147.1475	2.8200e-003	2.7000e-003	148.0430
Medical Office Building	11.505	0.1241	1.1279	0.9475	6.7700e-003		0.0857	0.0857		0.0857	0.0857		1,353.5247	1,353.5247	0.0259	0.0248	1,361.7620
Research & Development	5.26728	0.0568	0.5164	0.4338	3.1000e-003		0.0393	0.0393		0.0393	0.0393		619.6805	619.6805	0.0119	0.0114	623.4517
Unrefrigerated Warehouse-No Rail	0.133096	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6584	15.6584	3.0000e-004	2.9000e-004	15.7537

General Light Industry	6.26594	0.0676	0.6143	0.5160	3.6900e-003		0.0467	0.0467		0.0467	0.0467		737.1695	737.1695	0.0141	0.0135	741.6558
<b>Total</b>		<b>0.8512</b>	<b>7.7379</b>	<b>6.4998</b>	<b>0.0464</b>		<b>0.5881</b>	<b>0.5881</b>		<b>0.5881</b>	<b>0.5881</b>		<b>9,285.4789</b>	<b>9,285.4789</b>	<b>0.1780</b>	<b>0.1702</b>	<b>9,341.9888</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	23.3639	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004			0.2317
Unmitigated	23.3639	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004			0.2317

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	5.6705					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	17.6832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	0.0102	1.0000e-003	0.1046	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2187	0.2187	6.2000e-004			0.2317
<b>Total</b>	<b>23.3639</b>	<b>1.0000e-003</b>	<b>0.1046</b>	<b>1.0000e-005</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>0.2187</b>	<b>0.2187</b>	<b>6.2000e-004</b>			<b>0.2317</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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## 8.1 Mitigation Measures Waste

## 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 Vegetation

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# **Appendix B. 5**

**Operational Emissions – CalEEMod Output (Summer and Winter)**  
*Interim Operations*

**Harbor-UCLA Medical Center (Interim Operations)**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	52.64	1000sqft	1.21	52,635.00	0
General Light Industry	129.21	1000sqft	2.97	129,205.00	0
Hospital	379.00	Bed	6.23	271,272.12	0
Library	22.50	1000sqft	0.52	22,500.00	0
Medical Office Building	338.70	1000sqft	7.78	338,700.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	0
Research & Development	237.50	1000sqft	5.45	237,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Vehicle Trips - See Traffic Study

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	OperationalYear	2014	2023
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	15.31
tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	9.76
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	15.31
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	9.76
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	15.31
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	9.76
tblVehicleTrips	WD_TR	2.59	3.56

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.7028	1.1200e-003	0.1230	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		0.2637	0.2637	6.9000e-004		0.2782
Energy	0.6825	6.2046	5.2119	0.0372		0.4716	0.4716		0.4716	0.4716		7,445.5370	7,445.5370	0.1427	0.1365	7,490.8492
Mobile	55.3941	125.1538	602.0224	2.1616	140.1322	2.8512	142.9834	37.4838	2.6308	40.1147		162,235.3942	162,235.3942	5.2987		162,346.6672
<b>Total</b>	<b>84.7794</b>	<b>131.3595</b>	<b>607.3573</b>	<b>2.1988</b>	<b>140.1322</b>	<b>3.3232</b>	<b>143.4554</b>	<b>37.4838</b>	<b>3.1028</b>	<b>40.5866</b>		<b>169,681.1948</b>	<b>169,681.1948</b>	<b>5.4421</b>	<b>0.1365</b>	<b>169,837.7946</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.22	1.25	0.23	0.45	0.00	3.66	0.09	0.00	3.91	0.31	0.00	1.16	1.16	0.70	21.12	1.17

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	55.3941	125.1538	602.0224	2.1616	140.1322	2.8512	142.9834	37.4838	2.6308	40.1147		162,235.3942	162,235.3942	5.2987		162,346.6672
Unmitigated	55.3941	125.1538	602.0224	2.1616	140.1322	2.8512	142.9834	37.4838	2.6308	40.1147		162,235.3942	162,235.3942	5.2987		162,346.6672

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	193.81	193.81	193.81	858,233	858,233
General Office Building	805.84	805.84	805.84	2,595,988	2,595,988
Hospital	4,904.26	4,904.26	4,904.26	19,013,040	19,013,040
Library	1,265.40	1,265.40	1,265.40	3,194,737	3,194,737
Medical Office Building	12,237.23	12,237.23	12,237.23	31,741,646	31,741,646
Research & Development	2,318.00	2,318.00	2,318.00	7,831,712	7,831,712
Unrefrigerated Warehouse-No Rail	161.63	161.63	161.63	692,705	692,705
<b>Total</b>	<b>21,886.17</b>	<b>21,886.17</b>	<b>21,886.17</b>	<b>65,928,062</b>	<b>65,928,062</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.522550	0.057918	0.180146	0.126595	0.040312	0.006532	0.017397	0.036650	0.002593	0.003201	0.003751	0.000525	0.001830

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

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					
Natural Gas Mitigated	0.6825	6.2046	5.2119	0.0372		0.4716	0.4716		0.4716	0.4716		7,445.5370	7,445.5370	0.1427	0.1365	7,490.8492
Natural Gas Unmitigated	0.8652	7.8655	6.6070	0.0472		0.5978	0.5978		0.5978	0.5978		9,438.5470	9,438.5470	0.1809	0.1730	9,495.9884

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hospital	38.0784	0.4107	3.7332	3.1359	0.0224		0.2837	0.2837		0.2837	0.2837		4,479.8153	4,479.8153	0.0859	0.0821	4,507.0787
Library	0.938219	0.0101	0.0920	0.0773	5.5000e-004		6.9900e-003	6.9900e-003		6.9900e-003	6.9900e-003		110.3787	110.3787	2.1200e-003	2.0200e-003	111.0505
Medical Office Building	7.69731	0.0830	0.7546	0.6339	4.5300e-003		0.0574	0.0574		0.0574	0.0574		905.5654	905.5654	0.0174	0.0166	911.0765
Research & Development	9.90342	0.1068	0.9709	0.8156	5.8300e-003		0.0738	0.0738		0.0738	0.0738		1,165.1088	1,165.1088	0.0223	0.0214	1,172.1994
Unrefrigerated Warehouse-No Rail	0.0858284	9.3000e-004	8.4100e-003	7.0700e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0975	10.0975	1.9000e-004	1.9000e-004	10.1589
General Light Industry	5.38767	0.0581	0.5282	0.4437	3.1700e-003		0.0401	0.0401		0.0401	0.0401		633.8437	633.8437	0.0122	0.0116	637.7012
General Office Building	1.19618	0.0129	0.1173	0.0985	7.0000e-004		8.9100e-003	8.9100e-003		8.9100e-003	8.9100e-003		140.7276	140.7276	2.7000e-003	2.5800e-003	141.5840
<b>Total</b>		<b>0.6825</b>	<b>6.2046</b>	<b>5.2119</b>	<b>0.0372</b>		<b>0.4715</b>	<b>0.4715</b>		<b>0.4715</b>	<b>0.4715</b>		<b>7,445.5369</b>	<b>7,445.5369</b>	<b>0.1427</b>	<b>0.1365</b>	<b>7,490.8492</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	28.7028	1.1200e-003	0.1230	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		0.2637	0.2637	6.9000e-004			0.2782
Unmitigated	28.7028	1.1200e-003	0.1230	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		0.2637	0.2637	6.9000e-004			0.2782

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	6.9666					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	21.7248					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	0.0114	1.1200e-003	0.1230	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		0.2637	0.2637	6.9000e-004			0.2782
<b>Total</b>	<b>28.7028</b>	<b>1.1200e-003</b>	<b>0.1230</b>	<b>1.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>0.2637</b>	<b>0.2637</b>	<b>6.9000e-004</b>			<b>0.2782</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

## 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 Vegetation

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**Harbor-UCLA Medical Center (Interim Operations)**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	52.64	1000sqft	1.21	52,635.00	0
General Light Industry	129.21	1000sqft	2.97	129,205.00	0
Hospital	379.00	Bed	6.23	271,272.12	0
Library	22.50	1000sqft	0.52	22,500.00	0
Medical Office Building	338.70	1000sqft	7.78	338,700.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	0
Research & Development	237.50	1000sqft	5.45	237,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -  
 Land Use -  
 Vehicle Trips - See Traffic Study  
 Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	OperationalYear	2014	2023
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	15.31
tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	9.76
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	15.31
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	9.76
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	15.31
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	9.76
tblVehicleTrips	WD_TR	2.59	3.56

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.7028	1.1200e-003	0.1230	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		0.2637	0.2637	6.9000e-004		0.2782
Energy	0.6825	6.2046	5.2119	0.0372		0.4716	0.4716		0.4716	0.4716		7,445.5370	7,445.5370	0.1427	0.1365	7,490.8492
Mobile	58.0035	131.8732	610.6413	2.0646	140.1322	2.8602	142.9924	37.4838	2.6391	40.1230		155,426.1253	155,426.1253	5.3070		155,537.5715
<b>Total</b>	<b>87.3888</b>	<b>138.0789</b>	<b>615.9762</b>	<b>2.1018</b>	<b>140.1322</b>	<b>3.3322</b>	<b>143.4644</b>	<b>37.4838</b>	<b>3.1111</b>	<b>40.5949</b>		<b>162,871.9259</b>	<b>162,871.9259</b>	<b>5.4504</b>	<b>0.1365</b>	<b>163,028.6990</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.21</b>	<b>1.19</b>	<b>0.23</b>	<b>0.47</b>	<b>0.00</b>	<b>3.65</b>	<b>0.09</b>	<b>0.00</b>	<b>3.90</b>	<b>0.31</b>	<b>0.00</b>	<b>1.21</b>	<b>1.21</b>	<b>0.70</b>	<b>21.12</b>	<b>1.21</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	58.0035	131.8732	610.6413	2.0646	140.1322	2.8602	142.9924	37.4838	2.6391	40.1230		155,426.1253	155,426.1253	5.3070		155,537.5715
Unmitigated	58.0035	131.8732	610.6413	2.0646	140.1322	2.8602	142.9924	37.4838	2.6391	40.1230		155,426.1253	155,426.1253	5.3070		155,537.5715

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	193.81	193.81	193.81	858,233	858,233
General Office Building	805.84	805.84	805.84	2,595,988	2,595,988
Hospital	4,904.26	4,904.26	4,904.26	19,013,040	19,013,040
Library	1,265.40	1,265.40	1,265.40	3,194,737	3,194,737
Medical Office Building	12,237.23	12,237.23	12,237.23	31,741,646	31,741,646
Research & Development	2,318.00	2,318.00	2,318.00	7,831,712	7,831,712
Unrefrigerated Warehouse-No Rail	161.63	161.63	161.63	692,705	692,705
<b>Total</b>	<b>21,886.17</b>	<b>21,886.17</b>	<b>21,886.17</b>	<b>65,928,062</b>	<b>65,928,062</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.522550	0.057918	0.180146	0.126595	0.040312	0.006532	0.017397	0.036650	0.002593	0.003201	0.003751	0.000525	0.001830

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

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					
Natural Gas Mitigated	0.6825	6.2046	5.2119	0.0372		0.4716	0.4716		0.4716	0.4716		7,445.5370	7,445.5370	0.1427	0.1365	7,490.8492
Natural Gas Unmitigated	0.8652	7.8655	6.6070	0.0472		0.5978	0.5978		0.5978	0.5978		9,438.5470	9,438.5470	0.1809	0.1730	9,495.9884

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hospital	38.0784	0.4107	3.7332	3.1359	0.0224		0.2837	0.2837		0.2837	0.2837		4,479.8153	4,479.8153	0.0859	0.0821	4,507.0787
Library	0.938219	0.0101	0.0920	0.0773	5.5000e-004		6.9900e-003	6.9900e-003		6.9900e-003	6.9900e-003		110.3787	110.3787	2.1200e-003	2.0200e-003	111.0505
Medical Office Building	7.69731	0.0830	0.7546	0.6339	4.5300e-003		0.0574	0.0574		0.0574	0.0574		905.5654	905.5654	0.0174	0.0166	911.0765
Research & Development	9.90342	0.1068	0.9709	0.8156	5.8300e-003		0.0738	0.0738		0.0738	0.0738		1,165.1088	1,165.1088	0.0223	0.0214	1,172.1994
Unrefrigerated Warehouse-No Pool	0.0858284	9.3000e-004	8.4100e-003	7.0700e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0975	10.0975	1.9000e-004	1.9000e-004	10.1589
General Light Industry	5.38767	0.0581	0.5282	0.4437	3.1700e-003		0.0401	0.0401		0.0401	0.0401		633.8437	633.8437	0.0122	0.0116	637.7012
General Office Building	1.19618	0.0129	0.1173	0.0985	7.0000e-004		8.9100e-003	8.9100e-003		8.9100e-003	8.9100e-003		140.7276	140.7276	2.7000e-003	2.5800e-003	141.5840
<b>Total</b>		<b>0.6825</b>	<b>6.2046</b>	<b>5.2119</b>	<b>0.0372</b>		<b>0.4715</b>	<b>0.4715</b>		<b>0.4715</b>	<b>0.4715</b>		<b>7,445.5369</b>	<b>7,445.5369</b>	<b>0.1427</b>	<b>0.1365</b>	<b>7,490.8492</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	28.7028	1.1200e-003	0.1230	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		0.2637	0.2637	6.9000e-004			0.2782
Unmitigated	28.7028	1.1200e-003	0.1230	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		0.2637	0.2637	6.9000e-004			0.2782

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.9666					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0114	1.1200e-003	0.1230	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		0.2637	0.2637	6.9000e-004		0.2782
<b>Total</b>	<b>28.7028</b>	<b>1.1200e-003</b>	<b>0.1230</b>	<b>1.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>0.2637</b>	<b>0.2637</b>	<b>6.9000e-004</b>		<b>0.2782</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

## 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 Vegetation

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# **Appendix B. 5**

**Operational Emissions – CalEEMod Output (Summer and Winter)**  
*Full Build-Out Operations*

## Harbor-UCLA Medical Center (Full Build-Out Operations)

### Los Angeles-South Coast County, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	130.64	1000sqft	3.00	130,635.00	0
General Light Industry	129.21	1000sqft	2.97	129,205.00	0
Hospital	379.00	Bed	6.23	271,272.12	0
Library	22.50	1000sqft	0.52	22,500.00	0
Medical Office Building	412.60	1000sqft	9.47	412,598.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	0
Research & Development	475.00	1000sqft	10.90	475,000.00	0
Strip Mall	35.00	1000sqft	0.80	35,000.00	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>	2030		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use -

Vehicle Trips - See Traffic Study

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	129,210.00	129,205.00
tblLandUse	LandUseSquareFeet	45,400.00	45,402.00
tblProjectCharacteristics	OperationalYear	2014	2030
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	12.31
tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	8.67
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	ST_TR	42.04	42.70
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	12.31
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	8.67
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	SU_TR	20.43	42.70
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	12.31
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	8.67
tblVehicleTrips	WD_TR	2.59	3.56
tblVehicleTrips	WD_TR	44.32	42.70

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	39.8043	1.4900e-003	0.1655	1.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		0.3566	0.3566	9.2000e-004			0.3759
Energy	0.8280	7.5271	6.3228	0.0452		0.5721	0.5721		0.5721	0.5721		9,032.5334	9,032.5334	0.1731	0.1656		9,087.5039
Mobile	60.2979	140.9235	649.1757	2.8280	179.5340	3.8065	183.3405	48.0450	3.5129	51.5579		203,744.7084	203,744.7084	5.7629			203,865.7284
<b>Total</b>	<b>100.9302</b>	<b>148.4521</b>	<b>655.6640</b>	<b>2.8732</b>	<b>179.5340</b>	<b>4.3792</b>	<b>183.9132</b>	<b>48.0450</b>	<b>4.0855</b>	<b>52.1306</b>		<b>212,777.5984</b>	<b>212,777.5984</b>	<b>5.9369</b>	<b>0.1656</b>		<b>212,953.6082</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.22	1.33	0.26	0.42	0.00	3.35	0.08	0.00	3.59	0.29	0.00	1.12	1.12	0.77	20.99	1.12

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	60.2979	140.9235	649.1757	2.8280	179.5340	3.8065	183.3405	48.0450	3.5129	51.5579		203,744.7084	203,744.7084	5.7629		203,865.7284
Unmitigated	60.2979	140.9235	649.1757	2.8280	179.5340	3.8065	183.3405	48.0450	3.5129	51.5579		203,744.7084	203,744.7084	5.7629		203,865.7284

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	193.82	193.82	193.82	858,267	858,267
General Office Building	1,608.12	1,608.12	1,608.12	5,180,486	5,180,486
Hospital	4,904.26	4,904.26	4,904.26	19,013,040	19,013,040
Library	1,265.40	1,265.40	1,265.40	3,194,737	3,194,737
Medical Office Building	14,907.17	14,907.17	14,907.17	38,667,079	38,667,079
Research & Development	4,118.25	4,118.25	4,118.25	13,914,128	13,914,128
Unrefrigerated Warehouse-No Rail	161.62	161.62	161.62	692,675	692,675
Strip Mall	1,494.50	1,494.50	1,494.50	2,843,429	2,843,429
<b>Total</b>	<b>28,653.13</b>	<b>28,653.13</b>	<b>28,653.13</b>	<b>84,363,840</b>	<b>84,363,840</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508453	0.058534	0.182003	0.128323	0.043028	0.007073	0.018375	0.041612	0.002788	0.003272	0.003888	0.000508	0.002143

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

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	0.8280	7.5271	6.3228	0.0452		0.5721	0.5721		0.5721	0.5721		9,032.5334	9,032.5334	0.1731	0.1656	9,087.5039
NaturalGas Unmitigated	1.0480	9.5273	8.0030	0.0572		0.7241	0.7241		0.7241	0.7241		11,432.7840	11,432.7840	0.2191	0.2096	11,502.3620

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Hospital	38.0784	0.4107	3.7332	3.1359	0.0224		0.2837	0.2837		0.2837	0.2837			4,479.8153	4,479.8153	0.0859	0.0821	4,507.0787
Library	0.938219	0.0101	0.0920	0.0773	5.5000e-004		6.9900e-003	6.9900e-003		6.9900e-003	6.9900e-003			110.3787	110.3787	2.1200e-003	2.0200e-003	111.0505
Medical Office Building	9.37671	0.1011	0.9193	0.7722	5.5200e-003		0.0699	0.0699		0.0699	0.0699			1,103.1428	1,103.1428	0.0211	0.0202	1,109.8563
Research & Development	19.8068	0.2136	1.9419	1.6312	0.0117		0.1476	0.1476		0.1476	0.1476			2,330.2176	2,330.2176	0.0447	0.0427	2,344.3989
Strip Mall	0.134007	1.4500e-003	0.0131	0.0110	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003			15.7655	15.7655	3.0000e-004	2.9000e-004	15.8615
Unrefrigerated Warehouse-No	0.0858284	9.3000e-004	8.4100e-003	7.0700e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004			10.0975	10.0975	1.9000e-004	1.9000e-004	10.1589
General Light Industry	5.38767	0.0581	0.5282	0.4437	3.1700e-003		0.0401	0.0401		0.0401	0.0401			633.8437	633.8437	0.0122	0.0116	637.7012
General Office Building	2.96881	0.0320	0.2911	0.2445	1.7500e-003		0.0221	0.0221		0.0221	0.0221			349.2723	349.2723	6.6900e-003	6.4000e-003	351.3979
<b>Total</b>		<b>0.8280</b>	<b>7.5271</b>	<b>6.3228</b>	<b>0.0452</b>		<b>0.5721</b>	<b>0.5721</b>		<b>0.5721</b>	<b>0.5721</b>			<b>9,032.5334</b>	<b>9,032.5334</b>	<b>0.1731</b>	<b>0.1656</b>	<b>9,087.5039</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	39.8043	1.4900e-003	0.1655	1.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004			0.3566	0.3566	9.2000e-004		0.3759
Unmitigated	39.8043	1.4900e-003	0.1655	1.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004			0.3566	0.3566	9.2000e-004		0.3759

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	9.6612					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	30.1279					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	0.0151	1.4900e-003	0.1655	1.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		0.3566	0.3566	9.2000e-004			0.3759
<b>Total</b>	<b>39.8043</b>	<b>1.4900e-003</b>	<b>0.1655</b>	<b>1.0000e-005</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>0.3566</b>	<b>0.3566</b>	<b>9.2000e-004</b>			<b>0.3759</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

**Harbor-UCLA Medical Center (Full Build-Out Operations)**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	130.64	1000sqft	3.00	130,635.00	0
General Light Industry	129.21	1000sqft	2.97	129,205.00	0
Hospital	379.00	Bed	6.23	271,272.12	0
Library	22.50	1000sqft	0.52	22,500.00	0
Medical Office Building	412.60	1000sqft	9.47	412,598.00	0
Unrefrigerated Warehouse-No Rail	45.40	1000sqft	1.04	45,402.00	0
Research & Development	475.00	1000sqft	10.90	475,000.00	0
Strip Mall	35.00	1000sqft	0.80	35,000.00	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>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use -
- Vehicle Trips - See Traffic Study
- Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	129,210.00	129,205.00
tblLandUse	LandUseSquareFeet	45,400.00	45,402.00
tblProjectCharacteristics	OperationalYear	2014	2030
tblVehicleTrips	ST_TR	1.32	1.50
tblVehicleTrips	ST_TR	2.37	12.31
tblVehicleTrips	ST_TR	8.14	12.94
tblVehicleTrips	ST_TR	46.55	56.24
tblVehicleTrips	ST_TR	8.96	36.13
tblVehicleTrips	ST_TR	1.90	8.67
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	ST_TR	42.04	42.70
tblVehicleTrips	SU_TR	0.68	1.50
tblVehicleTrips	SU_TR	0.98	12.31
tblVehicleTrips	SU_TR	7.19	12.94
tblVehicleTrips	SU_TR	25.49	56.24
tblVehicleTrips	SU_TR	1.55	36.13
tblVehicleTrips	SU_TR	1.11	8.67
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	SU_TR	20.43	42.70
tblVehicleTrips	WD_TR	6.97	1.50
tblVehicleTrips	WD_TR	11.01	12.31
tblVehicleTrips	WD_TR	11.81	12.94
tblVehicleTrips	WD_TR	8.11	8.67
tblVehicleTrips	WD_TR	2.59	3.56
tblVehicleTrips	WD_TR	44.32	42.70

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	39.8043	1.4900e-003	0.1655	1.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		0.3566	0.3566	9.2000e-004			0.3759
Energy	0.8280	7.5271	6.3228	0.0452		0.5721	0.5721		0.5721	0.5721		9,032.5334	9,032.5334	0.1731	0.1656		9,087.5039
Mobile	63.2361	147.6639	665.9048	2.7033	179.5340	3.8194	183.3534	48.0450	3.5247	51.5697		195,501.4401	195,501.4401	5.7751			195,622.7168
<b>Total</b>	<b>103.8683</b>	<b>155.1925</b>	<b>672.3931</b>	<b>2.7485</b>	<b>179.5340</b>	<b>4.3920</b>	<b>183.9261</b>	<b>48.0450</b>	<b>4.0974</b>	<b>52.1424</b>		<b>204,534.3301</b>	<b>204,534.3301</b>	<b>5.9491</b>	<b>0.1656</b>		<b>204,710.5966</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.21</b>	<b>1.27</b>	<b>0.25</b>	<b>0.43</b>	<b>0.00</b>	<b>3.35</b>	<b>0.08</b>	<b>0.00</b>	<b>3.58</b>	<b>0.29</b>	<b>0.00</b>	<b>1.16</b>	<b>1.16</b>	<b>0.77</b>	<b>20.99</b>	<b>1.17</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	63.2361	147.6639	665.9048	2.7033	179.5340	3.8194	183.3534	48.0450	3.5247	51.5697		195,501.4401	195,501.4401	5.7751		195,622.7168
Unmitigated	63.2361	147.6639	665.9048	2.7033	179.5340	3.8194	183.3534	48.0450	3.5247	51.5697		195,501.4401	195,501.4401	5.7751		195,622.7168

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	193.82	193.82	193.82	858,267	858,267
General Office Building	1,608.12	1,608.12	1,608.12	5,180,486	5,180,486
Hospital	4,904.26	4,904.26	4,904.26	19,013,040	19,013,040
Library	1,265.40	1,265.40	1,265.40	3,194,737	3,194,737
Medical Office Building	14,907.17	14,907.17	14,907.17	38,667,079	38,667,079
Research & Development	4,118.25	4,118.25	4,118.25	13,914,128	13,914,128
Unrefrigerated Warehouse-No Rail	161.62	161.62	161.62	692,675	692,675
Strip Mall	1,494.50	1,494.50	1,494.50	2,843,429	2,843,429
<b>Total</b>	<b>28,653.13</b>	<b>28,653.13</b>	<b>28,653.13</b>	<b>84,363,840</b>	<b>84,363,840</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Research & Development	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508453	0.058534	0.182003	0.128323	0.043028	0.007073	0.018375	0.041612	0.002788	0.003272	0.003888	0.000508	0.002143

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

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	0.8280	7.5271	6.3228	0.0452		0.5721	0.5721		0.5721	0.5721		9,032.5334	9,032.5334	0.1731	0.1656	9,087.5039
NaturalGas Unmitigated	1.0480	9.5273	8.0030	0.0572		0.7241	0.7241		0.7241	0.7241		11,432.7840	11,432.7840	0.2191	0.2096	11,502.3620

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Hospital	38.0784	0.4107	3.7332	3.1359	0.0224		0.2837	0.2837		0.2837	0.2837			4,479.8153	4,479.8153	0.0859	0.0821	4,507.0787
Library	0.938219	0.0101	0.0920	0.0773	5.5000e-004		6.9900e-003	6.9900e-003		6.9900e-003	6.9900e-003			110.3787	110.3787	2.1200e-003	2.0200e-003	111.0505
Medical Office Building	9.37671	0.1011	0.9193	0.7722	5.5200e-003		0.0699	0.0699		0.0699	0.0699			1,103.1428	1,103.1428	0.0211	0.0202	1,109.8563
Research & Development	19.8068	0.2136	1.9419	1.6312	0.0117		0.1476	0.1476		0.1476	0.1476			2,330.2176	2,330.2176	0.0447	0.0427	2,344.3989
Strip Mall	0.134007	1.4500e-003	0.0131	0.0110	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003			15.7655	15.7655	3.0000e-004	2.9000e-004	15.8615
Unrefrigerated Warehouse-No	0.0858284	9.3000e-004	8.4100e-003	7.0700e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004			10.0975	10.0975	1.9000e-004	1.9000e-004	10.1589
General Light Industry	5.38767	0.0581	0.5282	0.4437	3.1700e-003		0.0401	0.0401		0.0401	0.0401			633.8437	633.8437	0.0122	0.0116	637.7012
General Office Building	2.96881	0.0320	0.2911	0.2445	1.7500e-003		0.0221	0.0221		0.0221	0.0221			349.2723	349.2723	6.6900e-003	6.4000e-003	351.3979
<b>Total</b>		<b>0.8280</b>	<b>7.5271</b>	<b>6.3228</b>	<b>0.0452</b>		<b>0.5721</b>	<b>0.5721</b>		<b>0.5721</b>	<b>0.5721</b>			<b>9,032.5334</b>	<b>9,032.5334</b>	<b>0.1731</b>	<b>0.1656</b>	<b>9,087.5039</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	39.8043	1.4900e-003	0.1655	1.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004			0.3566	0.3566	9.2000e-004		0.3759
Unmitigated	39.8043	1.4900e-003	0.1655	1.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004			0.3566	0.3566	9.2000e-004		0.3759

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.6612					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.1279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0151	1.4900e-003	0.1655	1.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		0.3566	0.3566	9.2000e-004		0.3759
<b>Total</b>	<b>39.8043</b>	<b>1.4900e-003</b>	<b>0.1655</b>	<b>1.0000e-005</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>0.3566</b>	<b>0.3566</b>	<b>9.2000e-004</b>		<b>0.3759</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

## 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 Vegetation

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# **Appendix B. 6**

## **South Coast Air Quality Management District Rule 403**

(Adopted May 7, 1976) (Amended November 6, 1992)  
(Amended July 9, 1993) (Amended February 14, 1997)  
(Amended December 11, 1998)(Amended April 2, 2004)  
(Amended June 3, 2005)

**RULE 403. FUGITIVE DUST**

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

- (1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.
- (2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.
- (3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.
- (4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.
- (5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

- (6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.
- (7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.
- (8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.
- (9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.
- (10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.
- (11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.
- (12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.
- (13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.

- (14) **DISTURBED SURFACE AREA** means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:
  - (A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;
  - (B) been paved or otherwise covered by a permanent structure; or
  - (C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.
- (15) **DUST SUPPRESSANTS** are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.
- (16) **EARTH-MOVING ACTIVITIES** means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.
- (17) **DUST CONTROL SUPERVISOR** means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.
- (18) **FUGITIVE DUST** means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (19) **HIGH WIND CONDITIONS** means that instantaneous wind speeds exceed 25 miles per hour.
- (20) **INACTIVE DISTURBED SURFACE AREA** means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.
- (21) **LARGE OPERATIONS** means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic

meters (5,000 cubic yards) or more three times during the most recent 365-day period.

- (22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.
- (23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
- (24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.
- (25) PM<sub>10</sub> means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.
- (26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.
- (28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.
- (29) SIMULTANEOUS SAMPLING means the operation of two PM<sub>10</sub> samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.
- (30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.

- (31) **STABILIZED SURFACE** means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.
  - (32) **TRACK-OUT** means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
  - (33) **TYPICAL ROADWAY MATERIALS** means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.
  - (34) **UNPAVED ROADS** means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.
  - (35) **VISIBLE ROADWAY DUST** means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
  - (36) **WIND-DRIVEN FUGITIVE DUST** means visible emissions from any disturbed surface area which is generated by wind action alone.
  - (37) **WIND GUST** is the maximum instantaneous wind speed as measured by an anemometer.
- (d) Requirements
- (1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:

- (A) the dust remains visible in the atmosphere beyond the property line of the emission source; or
  - (B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.
- (2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.
- (3) No person shall cause or allow PM<sub>10</sub> levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM<sub>10</sub> monitoring. If sampling is conducted, samplers shall be:
- (A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM<sub>10</sub>.
  - (B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.
- (4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.
- (5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.
- (A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

- (B) Pave the surface extending at least 100 feet and at least 20 feet wide.
  - (C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).
- (6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.
- (e) Additional Requirements for Large Operations
- (1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:
    - (A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;
    - (B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;
    - (C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

- (D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;
  - (E) identify a dust control supervisor that:
    - (i) is employed by or contracted with the property owner or developer;
    - (ii) is on the site or available on-site within 30 minutes during working hours;
    - (iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;
    - (iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and
  - (F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).
- (2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).
- (f) **Compliance Schedule**  
The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

(1) The provisions of this Rule shall not apply to:

- (A) Dairy farms.
- (B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.
- (C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.
- (D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
  - (i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;
  - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and
  - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
- (E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
  - (i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and
  - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and
  - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.

- (F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.
  - (G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.
  - (H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.
  - (I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.
  - (J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:
    - (i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and
    - (ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.
  - (K) sandblasting operations.
- (2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:
- (A) When wind gusts exceed 25 miles per hour, provided that:

- (i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;
    - (ii) records are maintained in accordance with subparagraph (e)(1)(C).
  - (B) To unpaved roads, provided such roads:
    - (i) are used solely for the maintenance of wind-generating equipment; or
    - (ii) are unpaved public alleys as defined in Rule 1186; or
    - (iii) are service roads that meet all of the following criteria:
      - (a) are less than 50 feet in width at all points along the road;
      - (b) are within 25 feet of the property line; and
      - (c) have a traffic volume less than 20 vehicle-trips per day.
  - (C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.
- (3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.
  - (4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:
    - (A) Blasting operations which have been permitted by the California Division of Industrial Safety; and
    - (B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.
  - (5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for

each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).

- (6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.
- (7) The provisions of subdivision (e) shall not apply to:
  - (A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.
  - (B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.
  - (C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.
- (8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM<sub>10</sub> pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	<ul style="list-style-type: none"> <li>✓ Mix backfill soil with water prior to moving</li> <li>✓ Dedicate water truck or high capacity hose to backfilling equipment</li> <li>✓ Empty loader bucket slowly so that no dust plumes are generated</li> <li>✓ Minimize drop height from loader bucket</li> </ul>
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	<ul style="list-style-type: none"> <li>✓ Maintain live perennial vegetation where possible</li> <li>✓ Apply water in sufficient quantity to prevent generation of dust plumes</li> </ul>
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	<ul style="list-style-type: none"> <li>✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements</li> </ul>
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	<ul style="list-style-type: none"> <li>✓ Follow permit conditions for crushing equipment</li> <li>✓ Pre-water material prior to loading into crusher</li> <li>✓ Monitor crusher emissions opacity</li> <li>✓ Apply water to crushed material to prevent dust plumes</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	<ul style="list-style-type: none"> <li>✓ Use tarps or other suitable enclosures on haul trucks</li> <li>✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage</li> <li>✓ Comply with track-out prevention/mitigation requirements</li> <li>✓ Provide water while loading and unloading to reduce visible dust plumes</li> </ul>
Landscaping	10-1 Stabilize soils, materials, slopes	<ul style="list-style-type: none"> <li>✓ Apply water to materials to stabilize</li> <li>✓ Maintain materials in a crusted condition</li> <li>✓ Maintain effective cover over materials</li> <li>✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes</li> <li>✓ Hydroseed prior to rain season</li> </ul>
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	<ul style="list-style-type: none"> <li>✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs</li> <li>✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	<ul style="list-style-type: none"> <li>✓ Dedicate water truck or high capacity hose to screening operation</li> <li>✓ Drop material through the screen slowly and minimize drop height</li> <li>✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point</li> </ul>
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	<ul style="list-style-type: none"> <li>✓ Limit size of staging area</li> <li>✓ Limit vehicle speeds to 15 miles per hour</li> <li>✓ Limit number and size of staging area entrances/exists</li> </ul>
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	<ul style="list-style-type: none"> <li>✓ Add or remove material from the downwind portion of the storage pile</li> <li>✓ Maintain storage piles to avoid steep sides or faces</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	<ul style="list-style-type: none"> <li>✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas</li> <li>✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes</li> </ul>
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	<ul style="list-style-type: none"> <li>✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching</li> <li>✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment</li> </ul>
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	<ul style="list-style-type: none"> <li>✓ Empty loader bucket such that no visible dust plumes are created</li> <li>✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading</li> </ul>
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	<ul style="list-style-type: none"> <li>✓ Haul waste material immediately off-site</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
 (Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Unpaved roads/parking lots	19-1 Stabilize soils to meet the applicable performance standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
Vacant land	20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

**Table 2**  
**DUST CONTROL MEASURES FOR LARGE OPERATIONS**

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving (except construction cutting and filling areas, and mining operations)</b>	<p>(1a) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR</p> <p>(1a-1) For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.</p>
<b>Earth-moving: Construction fill areas:</b>	<p>(1b) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.</p>

Table 2 (Continued)

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving: Construction cut areas and mining operations:</b>	(1c) Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
<b>Disturbed surface areas (except completed grading areas)</b>	(2a/b) Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
<b>Disturbed surface areas: Completed grading areas</b>	(2c) Apply chemical stabilizers within five working days of grading completion; OR  (2d) Take actions (3a) or (3c) specified for inactive disturbed surface areas.
<b>Inactive disturbed surface areas</b>	(3a) Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR  (3b) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR  (3c) Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR  (3d) Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

Table 2 (Continued)

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Unpaved Roads</b>	<p>(4a) Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR</p> <p>(4b) Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR</p> <p>(4c) Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.</p>
<b>Open storage piles</b>	<p>(5a) Apply chemical stabilizers; OR</p> <p>(5b) Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR</p> <p>(5c) Install temporary coverings; OR</p> <p>(5d) Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.</p>
<b>All Categories</b>	<p>(6a) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.</p>

**TABLE 3**  
**CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS**

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL MEASURES</b>
<b>Earth-moving</b>	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
<b>Disturbed surface areas</b>	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
<b>Unpaved roads</b>	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
<b>Open storage piles</b>	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
<b>Paved road track-out</b>	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
<b>All Categories</b>	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

**Table 4**  
**(Conservation Management Practices for Confined Animal Facilities)**

<b>SOURCE CATEGORY</b>	<b>CONSERVATION MANAGEMENT PRACTICES</b>
<b>Manure Handling</b>  <b>(Only applicable to Commercial Poultry Ranches)</b>	(1a) Cover manure prior to removing material off-site; AND (1b) Spread the manure before 11:00 AM and when wind conditions are less than 25 miles per hour; AND (1c) Utilize coning and drying manure management by removing manure at laying hen houses at least twice per year and maintain a base of no less than 6 inches of dry manure after clean out; or in lieu of complying with conservation management practice (1c), comply with conservation management practice (1d). (1d) Utilize frequent manure removal by removing the manure from laying hen houses at least every seven days and immediately thin bed dry the material.
<b>Feedstock Handling</b>	(2a) Utilize a sock or boot on the feed truck auger when filling feed storage bins.
<b>Disturbed Surfaces</b>	(3a) Maintain at least 70 percent vegetative cover on vacant portions of the facility; OR (3b) Utilize conservation tillage practices to manage the amount, orientation and distribution of crop and other plant residues on the soil surface year-round, while growing crops (if applicable) in narrow slots or tilled strips; OR (3c) Apply dust suppressants in sufficient concentrations and frequencies to maintain a stabilized surface.
<b>Unpaved Roads</b>	(4a) Restrict access to private unpaved roads either through signage or physical access restrictions and control vehicular speeds to no more than 15 miles per hour through worker notifications, signage, or any other necessary means; OR (4b) Cover frequently traveled unpaved roads with low silt content material (i.e., asphalt, concrete, recycled road base, or gravel to a minimum depth of four inches); OR (4c) Treat unpaved roads with water, mulch, chemical dust suppressants or other cover to maintain a stabilized surface.
<b>Equipment Parking Areas</b>	(5a) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (5b) Apply material with low silt content (i.e., asphalt, concrete, recycled road base, or gravel to a depth of four inches).