

Appendix C

Air Quality and Greenhouse Gas Emissions

LARMP - XS/S Common Elements - Los Angeles-South Coast County, Annual

LARMP - XS/S Common Elements
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	38.05	1000sqft	0.87	38,050.00	0
City Park	3.00	Acre	3.00	130,680.00	0
Fast Food Restaurant w/o Drive Thru	8.00	1000sqft	0.18	8,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8	Operational Year	2022		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	833.99	CH4 Intensity (lb/MW hr)	0.03	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor extrapolated per Table C-1 of LADWP 2017 Power Strategic Long-Term Resource Plan and State's RPS targets. CH4 and N2O intensity factors per eGRID 2018.

Land Use - Fast food restaurant = cafe; other asphalt spaces = performing arts space; city park = overall site. Added 34,050 SF to Other Asphalt Surfaces to account for paving emissions.

Construction Phase - Demolition phase length per applicant. Other inputs CalEEMod defaults.

Off-road Equipment - trucks onsite accounted for in Trips and VMT at 5 mph speed bin * 8 hours = 40 miles a day

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Grading - Material transfer and area graded per applicant

Demolition - Converted 4,000 CY from applicant to tons per CalEEMod tons per CY conversion factor.

Trips and VMT - commute trips/day and haul trip length per applicant. Water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph speed bin * 8 hours = 40 miles a day

Architectural Coating - VOC g/L per SCAQMD Rule 1113

Vehicle Trips - Other asphalt surfaces changed from 0 to account for maintenance worker vehicle trips.

Vehicle Emission Factors - Vehicle emissions processed for SAFE Rule outside of CalEEMod

Fleet Mix - Maintenance vehicle trips (light duty trucks) entered under Other Asphalt Surfaces

Area Coating - VOC g/L per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403, watering 3 times per day reduces PM by 61%

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	230.00	105.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	5.00	31.00
tblConstructionPhase	PhaseEndDate	2/23/2022	10/29/2021
tblConstructionPhase	PhaseEndDate	1/4/2022	9/17/2021
tblConstructionPhase	PhaseEndDate	2/16/2021	4/23/2021
tblConstructionPhase	PhaseEndDate	1/28/2022	10/8/2021
tblConstructionPhase	PhaseEndDate	2/4/2021	3/12/2021

tblConstructionPhase	PhaseStartDate	1/29/2022	10/9/2021
tblConstructionPhase	PhaseStartDate	2/17/2021	4/24/2021
tblConstructionPhase	PhaseStartDate	2/5/2021	3/13/2021
tblConstructionPhase	PhaseStartDate	1/5/2022	9/18/2021
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	1.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblGrading	AcresOfGrading	30.00	3.00
tblGrading	MaterialExported	0.00	5,000.00
tblGrading	MaterialImported	0.00	2,000.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.74
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37

tblTripsAndVMT	HaulingTripNumber	500.00	507.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	875.00	878.00
tblTripsAndVMT	HaulingTripNumber	0.00	7.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	74.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblVehicleTrips	CC_TTP	0.00	79.50
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	1.50
tblVehicleTrips	DV_TP	0.00	37.00
tblVehicleTrips	PB_TP	0.00	12.00
tblVehicleTrips	PR_TP	0.00	51.00
tblVehicleTrips	ST_TR	0.00	1.45
tblVehicleTrips	SU_TR	0.00	1.06
tblVehicleTrips	WD_TR	0.00	0.13

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Year	tons/yr										MT/yr					
2021	0.1609	1.7411	1.0277	3.3000e-003	0.1076	0.0581	0.1658	0.0225	0.0535	0.0760	0.0000	302.4945	302.4945	0.0617	0.0000	304.0368
Maximum	0.1609	1.7411	1.0277	3.3000e-003	0.1076	0.0581	0.1658	0.0225	0.0535	0.0760	0.0000	302.4945	302.4945	0.0617	0.0000	304.0368

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1609	1.7411	1.0277	3.3000e-003	0.0734	0.0581	0.1316	0.0174	0.0535	0.0709	0.0000	302.4943	302.4943	0.0617	0.0000	304.0366
Maximum	0.1609	1.7411	1.0277	3.3000e-003	0.0734	0.0581	0.1316	0.0174	0.0535	0.0709	0.0000	302.4943	302.4943	0.0617	0.0000	304.0366

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	31.78	0.00	20.64	22.84	0.00	6.76	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.6324	0.6324
2	4-1-2021	6-30-2021	0.7284	0.7284
3	7-1-2021	9-30-2021	0.4817	0.4817
		Highest	0.7284	0.7284

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0348	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2200e-003	1.2200e-003	0.0000	0.0000	1.30E-03
Energy	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	221.1070	221.1070	6.0900e-003	2.5600e-003	222.022
Mobile	1.3312	6.4318	14.3878	0.0479	3.7863	0.0410	3.8273	1.0149	0.0383	1.0532	0.0000	4,429.3867	4,429.3867	0.2464	0.0000	4,435.55
Waste						0.0000	0.0000		0.0000	0.0000	18.7584	0.0000	18.7584	1.1086	0.0000	46.4731
Water						0.0000	0.0000		0.0000	0.0000	0.7704	27.6352	28.4056	0.0801	2.0000e-003	31.0048
Total	1.3772	6.5335	14.4738	0.0485	3.7863	0.0488	3.8351	1.0149	0.0460	1.0609	19.5288	4,678.1301	4,697.6588	1.4412	4.5600e-003	4,735.05

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0348	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2200e-003	1.2200e-003	0.0000	0.0000	1.3000e-003
Energy	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	221.1070	221.1070	6.0900e-003	2.5600e-003	222.0220
Mobile	1.3312	6.4318	14.3878	0.0479	3.7863	0.0410	3.8273	1.0149	0.0383	1.0532	0.0000	4,429.3867	4,429.3867	0.2464	0.0000	4,435.5459
Waste						0.0000	0.0000		0.0000	0.0000	18.7584	0.0000	18.7584	1.1086	0.0000	46.4731
Water						0.0000	0.0000		0.0000	0.0000	0.7704	27.6352	28.4056	0.0801	2.0000e-003	31.0048
Total	1.3772	6.5335	14.4738	0.0485	3.7863	0.0488	3.8351	1.0149	0.0460	1.0609	19.5288	4,678.1301	4,697.6588	1.4412	4.5600e-003	4,735.0471

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/28/2021	5	20	
2	Site Preparation	Site Preparation	1/29/2021	3/12/2021	5	31	
3	Grading	Grading	3/13/2021	4/23/2021	5	30	
4	Building Construction	Building Construction	4/24/2021	9/17/2021	5	105	
5	Paving	Paving	9/18/2021	10/8/2021	5	15	
6	Architectural Coating	Architectural Coating	10/9/2021	10/29/2021	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0.87

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,000; Non-Residential Outdoor: 4,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	1	8.00	300	0.38
Demolition	Tractors/Loaders/Backhoes	2	8.00	250	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Paving	Paving Equipment	1	8.00	132	0.36
Paving	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Architectural Coating	Air Compressors	1	0.00	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	3	20.00	0.00	507.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	20.00	0.00	12.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Grading	6	20.00	0.00	878.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	20.00	29.00	7.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Paving	4	20.00	0.00	10.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	6.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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	tons/yr										MT/yr					
Fugitive Dust					0.0541	0.0000	0.0541	8.1900e-003	0.0000	8.1900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6900e-003	0.1039	0.0605	2.6000e-004		3.5000e-003	3.5000e-003		3.2200e-003	3.2200e-003	0.0000	22.4811	22.4811	7.2700e-003	0.0000	22.6628
Total	9.6900e-003	0.1039	0.0605	2.6000e-004	0.0541	3.5000e-003	0.0576	8.1900e-003	3.2200e-003	0.0114	0.0000	22.4811	22.4811	7.2700e-003	0.0000	22.6628

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.9900e-003	0.0936	0.0228	2.8000e-004	6.5300e-003	3.1000e-004	6.8400e-003	1.7900e-003	3.0000e-004	2.0900e-003	0.0000	27.7427	27.7427	1.8200e-003	0.0000	27.7882
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.7000e-004	7.5600e-003	2.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	1.9778	1.9778	6.0000e-005	0.0000	1.9793
Total	3.8500e-003	0.0943	0.0304	3.0000e-004	8.7200e-003	3.3000e-004	9.0500e-003	2.3700e-003	3.2000e-004	2.6900e-003	0.0000	29.7205	29.7205	1.8800e-003	0.0000	29.7675

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0211	0.0000	0.0211	3.1900e-003	0.0000	3.1900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0
Off-Road	9.6900e-003	0.1039	0.0605	2.6000e-004		3.5000e-003	3.5000e-003		3.2200e-003	3.2200e-003	0.0000	22.4810	22.4810	7.2700e-003	0.0000	22.6628
Total	9.6900e-003	0.1039	0.0605	2.6000e-004	0.0211	3.5000e-003	0.0246	3.1900e-003	3.2200e-003	6.4100e-003	0.0000	22.4810	22.4810	7.2700e-003	0.0000	22.6628

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Worker	1.3300e-003	1.0400e-003	0.0117	3.0000e-005	3.4000e-003	3.0000e-005	3.4200e-003	9.0000e-004	3.0000e-005	9.3000e-004	0.0000	3.0656	3.0656	9.0000e-005	0.0000	3.0679
Total	1.4000e-003	3.2600e-003	0.0123	4.0000e-005	3.5500e-003	4.0000e-005	3.5800e-003	9.4000e-004	4.0000e-005	9.8000e-004	0.0000	3.7223	3.7223	1.3000e-004	0.0000	3.7256

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0116	0.1171	0.1396	1.9000e-004		6.9000e-003	6.9000e-003		6.3500e-003	6.3500e-003	0.0000	16.8556	16.8556	5.4500e-003	0.0000	16.9919
Total	0.0116	0.1171	0.1396	1.9000e-004		6.9000e-003	6.9000e-003		6.3500e-003	6.3500e-003	0.0000	16.8556	16.8556	5.4500e-003	0.0000	16.9919

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	2.2200e-003	5.4000e-004	1.0000e-005	1.5000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.6566	0.6566	4.0000e-005	0.0000	0.6577
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	1.3300e-003	1.0400e-003	0.0117	3.0000e-005	3.4000e-003	3.0000e-005	3.4200e-003	9.0000e-004	3.0000e-005	9.3000e-004	0.0000	3.0656	3.0656	9.0000e-005	0.0000	3.0679
Total	1.4000e-003	3.2600e-003	0.0123	4.0000e-005	3.5500e-003	4.0000e-005	3.5800e-003	9.4000e-004	4.0000e-005	9.8000e-004	0.0000	3.7223	3.7223	1.3000e-004	0.0000	3.7256

3.4 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	tons/yr										MT/yr					
Fugitive Dust					1.9900e-003	0.0000	1.9900e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0364	0.4382	0.2463	5.8000e-004		0.0168	0.0168		0.0154	0.0154	0.0000	50.5945	50.5945	0.0164	0.0000	51.0036
Total	0.0364	0.4382	0.2463	5.8000e-004	1.9900e-003	0.0168	0.0187	2.3000e-004	0.0154	0.0156	0.0000	50.5945	50.5945	0.0164	0.0000	51.0036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.1800e-003	0.1622	0.0396	4.9000e-004	0.0113	5.4000e-004	0.0119	3.1100e-003	5.1000e-004	3.6200e-003	0.0000	48.0435	48.0435	3.1600e-003	0.0000	48.1224
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	6.4700e-003	0.1632	0.0509	5.2000e-004	0.0146	5.7000e-004	0.0152	3.9800e-003	5.3000e-004	4.5200e-003	0.0000	51.0103	51.0103	3.2500e-003	0.0000	51.0913

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Fugitive Dust					7.7000e-004	0.0000	7.7000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0	
Off-Road	0.0364	0.4382	0.2463	5.8000e-004		0.0168	0.0168		0.0154	0.0154	0.0000	50.5944	50.5944	0.0164	0.0000	51.0035
Total	0.0364	0.4382	0.2463	5.8000e-004	7.7000e-004	0.0168	0.0175	9.0000e-005	0.0154	0.0155	0.0000	50.5944	50.5944	0.0164	0.0000	51.0035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.1800e-003	0.1622	0.0396	4.9000e-004	0.0113	5.4000e-004	0.0119	3.1100e-003	5.1000e-004	3.6200e-003	0.0000	48.0435	48.0435	3.1600e-003	0.0000	48.1224
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	6.4700e-003	0.1632	0.0509	5.2000e-004	0.0146	5.7000e-004	0.0152	3.9800e-003	5.3000e-004	4.5200e-003	0.0000	51.0103	51.0103	3.2500e-003	0.0000	51.0913

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0529	0.6050	0.3250	7.6000e-004		0.0264	0.0264		0.0243	0.0243	0.0000	67.1466	67.1466	0.0217	0.0000	67.6895
Total	0.0529	0.6050	0.3250	7.6000e-004		0.0264	0.0264		0.0243	0.0243	0.0000	67.1466	67.1466	0.0217	0.0000	67.6895

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2900e-003	3.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3830	0.3830	3.0000e-005	0.0000	0.3837
Vendor	4.7300e-003	0.1503	0.0407	3.9000e-004	9.5900e-003	3.1000e-004	9.9000e-003	2.7700e-003	2.9000e-004	3.0600e-003	0.0000	37.5291	37.5291	2.3000e-003	0.0000	37.5867
Worker	4.5200e-003	3.5200e-003	0.0397	1.1000e-004	0.0115	9.0000e-005	0.0116	3.0600e-003	9.0000e-005	3.1400e-003	0.0000	10.3836	10.3836	3.1000e-004	0.0000	10.3913
Total	9.2900e-003	0.1551	0.0808	5.0000e-004	0.0212	4.0000e-004	0.0216	5.8500e-003	3.8000e-004	6.2300e-003	0.0000	48.2958	48.2958	2.6400e-003	0.0000	48.3616

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0529	0.6050	0.3250	7.6000e-004		0.0264	0.0264		0.0243	0.0243	0.0000	67.1465	67.1465	0.0217	0.0000	67.6894
Total	0.0529	0.6050	0.3250	7.6000e-004		0.0264	0.0264		0.0243	0.0243	0.0000	67.1465	67.1465	0.0217	0.0000	67.6894

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2900e-003	3.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3830	0.3830	3.0000e-005	0.0000	0.3837
Vendor	4.7300e-003	0.1503	0.0407	3.9000e-004	9.5900e-003	3.1000e-004	9.9000e-003	2.7700e-003	2.9000e-004	3.0600e-003	0.0000	37.5291	37.5291	2.3000e-003	0.0000	37.5867
Worker	4.5200e-003	3.5200e-003	0.0397	1.1000e-004	0.0115	9.0000e-005	0.0116	3.0600e-003	9.0000e-005	3.1400e-003	0.0000	10.3836	10.3836	3.1000e-004	0.0000	10.3913
Total	9.2900e-003	0.1551	0.0808	5.0000e-004	0.0212	4.0000e-004	0.0216	5.8500e-003	3.8000e-004	6.2300e-003	0.0000	48.2958	48.2958	2.6400e-003	0.0000	48.3616

3.6 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	tons/yr										MT/yr					
Off-Road	5.6500e-003	0.0572	0.0699	1.0000e-004		3.2300e-003	3.2300e-003		2.9700e-003	2.9700e-003	0.0000	8.8257	8.8257	2.8500e-003	0.0000	8.8971
Paving	1.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.7900e-003	0.0572	0.0699	1.0000e-004		3.2300e-003	3.2300e-003		2.9700e-003	2.9700e-003	0.0000	8.8257	8.8257	2.8500e-003	0.0000	8.8971

Unmitigated Construction Off-Site

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

Hauling	6.0000e-005	1.8500e-003	4.5000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5472	0.5472	4.0000e-005	0.0000	0.5481
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	7.1000e-004	2.3500e-003	6.1200e-003	3.0000e-005	1.7700e-003	2.0000e-005	1.7900e-003	4.8000e-004	2.0000e-005	4.9000e-004	0.0000	2.0306	2.0306	8.0000e-005	0.0000	2.0326

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6500e-003	0.0572	0.0699	1.0000e-004		3.2300e-003	3.2300e-003		2.9700e-003	2.9700e-003	0.0000	8.8257	8.8257	2.8500e-003	0.0000	8.8971
Paving	1.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Total	6.7900e-003	0.0572	0.0699	1.0000e-004		3.2300e-003	3.2300e-003		2.9700e-003	2.9700e-003	0.0000	8.8257	8.8257	2.8500e-003	0.0000	8.8971

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	1.8500e-003	4.5000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5472	0.5472	4.0000e-005	0.0000	0.5481
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845

Total	7.1000e-004	2.3500e-003	6.1200e-003	3.0000e-005	1.7700e-003	2.0000e-005	1.7900e-003	4.8000e-004	2.0000e-005	4.9000e-004	0.0000	2.0306	2.0306	8.0000e-005	0.0000	2.0326
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3.7 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	tons/yr										MT/yr					
Archit. Coating	0.0212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0212	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.1100e-003	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3283	0.3283	2.0000e-005	0.0000	0.3289
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	6.9000e-004	1.6100e-003	5.9400e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.8117	1.8117	6.0000e-005	0.0000	1.8133

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Total	0.0212	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.1100e-003	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3283	0.3283	2.0000e-005	0.0000	0.3289
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	6.5000e-004	5.0000e-004	5.6700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4834	1.4834	4.0000e-005	0.0000	1.4845
Total	6.9000e-004	1.6100e-003	5.9400e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.8117	1.8117	6.0000e-005	0.0000	1.8133

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	110.4006	110.4006	3.9700e-003	5.3000e-004	110.6577
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	110.4006	110.4006	3.9700e-003	5.3000e-004	110.6577
NaturalGas Mitigated	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	110.7064	110.7064	2.1200e-003	2.0300e-003	111.3643
NaturalGas Unmitigated	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	110.7064	110.7064	2.1200e-003	2.0300e-003	111.3643

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.07456e+006	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	110.7064	110.7064	2.1200e-003	2.0300e-003	111.3643
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	110.7064	110.7064	2.1200e-003	2.0300e-003	111.3643

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.07456e+006	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	110.7064	110.7064	2.1200e-003	2.0300e-003	111.3643
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	110.7064	110.7064	2.1200e-003	2.0300e-003	111.3643

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	291840	110.4006	3.9700e-003	5.3000e-004	110.6577
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		110.4006	3.9700e-003	5.3000e-004	110.6577

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	291840	110.4006	3.9700e-003	5.3000e-004	110.6577
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		110.4006	3.9700e-003	5.3000e-004	110.6577

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0348	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2200e-003	1.2200e-003	0.0000	0.0000	1.3000e-003
Unmitigated	0.0348	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2200e-003	1.2200e-003	0.0000	0.0000	1.3000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2200e-003	1.2200e-003	0.0000	0.0000	1.3000e-003
Total	0.0348	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2200e-003	1.2200e-003	0.0000	0.0000	1.30E-03

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2200e-003	1.2200e-003	0.0000	0.0000	1.3000e-003
Total	0.0348	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2200e-003	1.2200e-003	0.0000	0.0000	1.3000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	28.4056	0.0801	2.0000e-003	31.0048
Unmitigated	28.4056	0.0801	2.0000e-003	31.0048

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 3.57444	15.0227	5.4000e-004	7.0000e-005	15.0577
Fast Food Restaurant w/o Drive Thru	2.42827 / 0.154996	13.3828	0.0796	1.9300e-003	15.9471
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		28.4056	0.0801	2.0000e-003	31.0048

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 3.57444	15.0227	5.4000e-004	7.0000e-005	15.0577

Fast Food Restaurant w/o Drive Thru	2.42827 / 0.154996	13.3828	0.0796	1.9300e-003	15.9471
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		28.4056	0.0801	2.0000e-003	31.0048

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.7584	1.1086	0.0000	46.4731
Unmitigated	18.7584	1.1086	0.0000	46.4731

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Fast Food Restaurant w/o Drive Thru	92.15	18.7056	1.1055	0.0000	46.3424

Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		18.7584	1.1086	0.0000	46.4731

Mitigated

Land Use	Waste Disposed tons	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Fast Food Restaurant w/o Drive Thru	92.15	18.7056	1.1055	0.0000	46.3424
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		18.7584	1.1086	0.0000	46.4731

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

LARMP - XS/S Common Elements - Los Angeles-South Coast County, Winter

**LARMP - XS/S Common Elements
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	38.05	1000sqft	0.87	38,050.00	0
City Park	3.00	Acre	3.00	130,680.00	0
Fast Food Restaurant w/o Drive Thru	8.00	1000sqft	0.18	8,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	833.99	CH4 Intensity (lb/MW hr)	0.03	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor extrapolated per Table C-1 of LADWP 2017 Power Strategic Long-Term Resource Plan and State's RPS targets. CH4 and N2O intensity factors per eGRID 2018.

Land Use - Fast food restaurant = cafe; other asphalt spaces = performing arts space; city park = overall site. Added 34,050 SF to Other Asphalt Surfaces to account for paving emissions.

Construction Phase - Demolition phase length per applicant. Other inputs CalEEMod defaults.

Off-road Equipment - trucks onsite accounted for in Trips and VMT at 5 mph speed bin * 8 hours = 40 miles a day

Off-road Equipment - trucks onsite accounted for in Trips and VMT at 5 mph speed bin * 8 hours = 40 miles a day

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Off-road Equipment - trucks onsite accounted for in Trips and VMT at 5 mph speed bin * 8 hours = 40 miles a day

Off-road Equipment - trucks onsite accounted for in Trips and VMT at 5 mph speed bin * 8 hours = 40 miles a day

Grading - Material transfer and area graded per applicant

Demolition - Converted 4,000 CY from applicant to tons per CalEEMod tons per CY conversion factor.

Trips and VMT - commute trips/day and haul trip length per applicant. Water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph speed bin * 8 hours = 40 miles a day

Architectural Coating - VOC g/L per SCAQMD Rule 1113

Vehicle Trips - Other asphalt surfaces changed from 0 to account for maintenance worker vehicle trips.

Vehicle Emission Factors - Vehicle emissions processed for SAFE Rule outside of CalEEMod

Fleet Mix - Maintenance vehicle trips (light duty trucks) entered under Other Asphalt Surfaces

Area Coating - VOC g/L per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403, watering 3 times per day reduces PM by 61%

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	230.00	105.00
tblConstructionPhase	NumDays	8.00	30.00
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	5.00	31.00
tblConstructionPhase	PhaseEndDate	2/23/2022	10/29/2021
tblConstructionPhase	PhaseEndDate	1/4/2022	9/17/2021
tblConstructionPhase	PhaseEndDate	2/16/2021	4/23/2021

tblConstructionPhase	PhaseEndDate	1/28/2022	10/8/2021
tblConstructionPhase	PhaseEndDate	2/4/2021	3/12/2021
tblConstructionPhase	PhaseStartDate	1/29/2022	10/9/2021
tblConstructionPhase	PhaseStartDate	2/17/2021	4/24/2021
tblConstructionPhase	PhaseStartDate	2/5/2021	3/13/2021
tblConstructionPhase	PhaseStartDate	1/5/2022	9/18/2021
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	1.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblGrading	AcresOfGrading	30.00	3.00
tblGrading	MaterialExported	0.00	5,000.00
tblGrading	MaterialImported	0.00	2,000.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.74
tblOffRoadEquipment	LoadFactor	0.37	0.37

tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.03
tblProjectCharacteristics	CO2IntensityFactor	1227.89	833.99
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00

tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	500.00	507.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	875.00	878.00
tblTripsAndVMT	HaulingTripNumber	0.00	7.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	74.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblVehicleTrips	CC_TTP	0.00	79.50
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	1.50
tblVehicleTrips	DV_TP	0.00	37.00
tblVehicleTrips	PB_TP	0.00	12.00
tblVehicleTrips	PR_TP	0.00	51.00
tblVehicleTrips	ST_TR	0.00	1.45
tblVehicleTrips	SU_TR	0.00	1.06
tblVehicleTrips	WD_TR	0.00	0.13

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	2.9249	39.8885	19.8561	0.0729	6.2978	1.1543	6.6808	1.0605	1.0632	1.4140	0.0000	7,438.2092	7,438.2092	1.4441	0.0000	7,474.3117
Maximum	2.9249	39.8885	19.8561	0.0729	6.2978	1.1543	6.6808	1.0605	1.0632	1.4140	0.0000	7,438.2092	7,438.2092	1.4441	0.0000	7,474.3117

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	2.9249	39.8885	19.8561	0.0729	2.9979	1.1543	3.3809	0.5609	1.0632	1.3388	0.0000	7,438.2092	7,438.2092	1.4441	0.0000	7,474.3117
Maximum	2.9249	39.8885	19.8561	0.0729	2.9979	1.1543	3.3809	0.5609	1.0632	1.3388	0.0000	7,438.2092	7,438.2092	1.4441	0.0000	7,474.3117

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.40	0.00	49.39	47.11	0.00	5.32	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Area	0.1907	5.0000e-005	5.0200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Energy	0.0613	0.5572	0.4681	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6737	668.6737	0.0128	0.0123	672.6472
Mobile	8.0313	36.8468	83.7647	0.2769	22.6847	0.2420	22.9267	6.0703	0.2257	6.2959		28,210.8058	28,210.8058	1.6034		28,250.8908
Total	8.2832	37.4041	84.2378	0.2802	22.6847	0.2844	22.9691	6.0703	0.2680	6.3383		28,879.4902	28,879.4902	1.6163	0.0123	28,923.5495

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1907	5.00E-05	5.02E-03	0		2.00E-05	2.00E-05		2.00E-05	2.00E-05		0.0107	0.0107	3.0000e-005		0.0114
Energy	0.0613	0.5572	0.4681	3.34E-03		0.0424	0.0424		0.0424	0.0424		668.6737	668.6737	0.0128	0.0123	672.6472
Mobile	8.0313	36.8468	83.7647	0.2769	22.6847	0.242	22.9267	6.0703	0.2257	6.2959		28,210.8058	28,210.8058	1.6034		28,250.8908
Total	8.2832	37.4041	84.2378	0.2802	22.6847	0.2844	22.9691	6.0703	0.2680	6.3383		28,879.4902	28,879.4902	1.6163	0.0123	28,923.5495

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/28/2021	5	20	

2	Site Preparation	Site Preparation	1/29/2021	3/12/2021	5	31
3	Grading	Grading	3/13/2021	4/23/2021	5	30
4	Building Construction	Building Construction	4/24/2021	9/17/2021	5	105
5	Paving	Paving	9/18/2021	10/8/2021	5	15
6	Architectural Coating	Architectural Coating	10/9/2021	10/29/2021	5	15

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0.87

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,000; Non-Residential Outdoor: 4,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	1	8.00	300	0.38
Demolition	Tractors/Loaders/Backhoes	2	8.00	250	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Architectural Coating	Air Compressors	1	0.00	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	3	20.00	0.00	507.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	20.00	0.00	12.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT

Grading	6	20.00	0.00	878.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	20.00	29.00	7.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Paving	4	20.00	0.00	10.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	6.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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					5.4097	0.0000	5.4097	0.8191	0.0000	0.8191			0.0000			0.0000
Off-Road	0.9694	10.3901	6.0523	0.0256		0.3500	0.3500		0.3220	0.3220		2,478.1136	2,478.1136	0.8015		2,498.1504
Total	0.9694	10.3901	6.0523	0.0256	5.4097	0.3500	5.7597	0.8191	0.3220	1.1411		2,478.1136	2,478.1136	0.8015		2,498.1504

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3020	9.1888	2.3379	0.0280	0.6646	0.0312	0.6958	0.1822	0.0298	0.2120		3,036.5451	3,036.5451	0.2038		3,041.6402
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.3974	9.2540	3.0744	0.0301	0.8882	0.0330	0.9211	0.2415	0.0315	0.2729		3,250.9953	3,250.9953	0.2101		3,256.2482

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.1098	0.0000	2.1098	0.3194	0.0000	0.3194			0.0000			0.0000
Off-Road	0.9694	10.3901	6.0523	0.0256		0.3500	0.3500		0.3220	0.3220	0.0000	2,478.1136	2,478.1136	0.8015		2,498.1504
Total	0.9694	10.3901	6.0523	0.0256	2.1098	0.35	2.4598	0.3194	0.322	0.6414	0.0000	2,478.1136	2,478.1136	0.8015		2,498.1504

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3020	9.1888	2.3379	0.0280	0.6646	0.0312	0.6958	0.1822	0.0298	0.2120		3,036.5451	3,036.5451	0.2038		3,041.6402
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.3974	9.254	3.0744	0.0301	0.8882	0.033	0.9211	0.2415	0.0315	0.2729		3,250.9953	3,250.9953	0.2101		3,256.2482

3.3 Site Preparation - 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	0.7461	7.5525	9.0043	0.0124		0.4453	0.4453		0.4097	0.4097		1,198.7208	1,198.7208	0.3877			1,208.4131
Total	0.7461	7.5525	9.0043	0.0124		0.4453	0.4453		0.4097	0.4097		1,198.7208	1,198.7208	0.3877			1,208.4131

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	4.6100e-003	0.1403	0.0357	4.3000e-004	0.0102	4.8000e-004	0.0106	2.7800e-003	4.6000e-004	3.2400e-003		46.3683	46.3683	3.1100e-003			46.4461
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003			214.6080
Total	0.1000	0.2055	0.7722	2.5800e-003	0.2337	2.2900e-003	0.2360	0.0621	2.1200e-003	0.0642		260.8185	260.8185	9.4200e-003			261.0541

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	0.7461	7.5525	9.0043	0.0124		0.4453	0.4453		0.4097	0.4097	0.0000	1,198.7208	1,198.7208	0.3877		1,208.4131
Total	0.7461	7.5525	9.0043	0.0124		0.4453	0.4453		0.4097	0.4097	0.0000	1,198.7208	1,198.7208	0.3877		1,208.4131

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.6100e-003	0.1403	0.0357	4.3000e-004	0.0102	4.8000e-004	0.0106	2.7800e-003	4.6000e-004	3.2400e-003		46.3683	46.3683	3.1100e-003		46.4461
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	0.0954	0.0652	0.7365	2.15E-03	0.2236	1.81E-03	0.2254	0.0593	1.66E-03	0.061		214.4502	214.4502	6.3100e-003		214.6080
Total	0.1	0.2055	0.7722	2.58E-03	0.2337	2.29E-03	0.236	0.0621	2.12E-03	0.0642		260.8185	260.8185	9.4200e-003		261.0541

3.4 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					0.1324	0.0000	0.1324	0.0155	0.0000	0.0155			0.0000			0.0000
Off-Road	2.4250	29.2148	16.4205	0.0384		1.1165	1.1165		1.0271	1.0271		3,718.0567	3,718.0567	1.2025		3,748.1191

Total	2.4250	29.2148	16.4205	0.0384	0.1324	1.1165	1.2489	0.0155	1.0271	1.0426		3,718.0567	3,718.0567	1.2025		3,748.1191
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3487	10.6085	2.6991	0.0323	0.7673	0.0360	0.8033	0.2103	0.0344	0.2447		3,505.7023	3,505.7023	0.2353		3,511.5847
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.4441	10.6738	3.4356	0.0345	0.9909	0.0378	1.0286	0.2696	0.0361	0.3057		3,720.1525	3,720.1525	0.2416		3,726.1926

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0517	0.0000	0.0517	6.0200e-003	0.0000	6.0200e-003			0.0000			0.0000
Off-Road	2.425	29.2148	16.4205	0.0384		1.1165	1.1165		1.0271	1.0271	0.0000	3,718.0567	3,718.0567	1.2025		3,748.1191
Total	2.425	29.2148	16.4205	0.0384	0.0517	1.1165	1.1681	6.02E-03	1.0271	1.0332	0.0000	3,718.0567	3,718.0567	1.2025		3,748.1191

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3487	10.6085	2.6991	0.0323	0.7673	0.0360	0.8033	0.2103	0.0344	0.2447		3,505.7023	3,505.7023	0.2353		3,511.5847
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	0.0954	0.0652	0.7365	2.15E-03	0.2236	1.81E-03	0.2254	0.0593	1.66E-03	0.061		214.4502	214.4502	6.3100e-003		214.6080
Total	0.4441	10.6738	3.4356	0.0345	0.9909	0.0378	1.0286	0.2696	0.0361	0.3057		3,720.1525	3,720.1525	0.2416		3,726.1926

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0069	11.5233	6.1908	0.0146		0.5025	0.5025		0.4623	0.4623		1,409.8363	1,409.8363	0.4560		1,421.2356
Total	1.0069	11.5233	6.1908	0.0146		0.5025	0.5025		0.4623	0.4623		1,409.8363	1,409.8363	0.4560		1,421.2356

Unmitigated Construction Off-Site

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

Hauling	7.9000e-004	0.0242	6.1500e-003	7.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		7.9857	7.9857	5.4000e-004		7.9991
Vendor	0.0925	2.8098	0.8142	7.2600e-003	0.1857	5.9400e-003	0.1916	0.0535	5.6800e-003	0.0591		775.3020	775.3020	0.0501		776.5533
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.1887	2.8992	1.5569	9.4800e-003	0.4110	7.8300e-003	0.4188	0.1132	7.4200e-003	0.1207		997.7379	997.7379	0.0569		999.1603

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0069	11.5233	6.1908	0.0146		0.5025	0.5025		0.4623	0.4623	0.0000	1,409.8363	1,409.8363	0.4560		1,421.2356
Total	1.0069	11.5233	6.1908	0.0146		0.5025	0.5025		0.4623	0.4623	0.0000	1,409.8363	1,409.8363	0.4560		1,421.2356

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.9000e-004	0.0242	6.1500e-003	7.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		7.9857	7.9857	5.4000e-004		7.9991
Vendor	0.0925	2.8098	0.8142	7.2600e-003	0.1857	5.9400e-003	0.1916	0.0535	5.6800e-003	0.0591		775.3020	775.3020	0.0501		776.5533
Worker	0.0954	0.0652	0.7365	2.15E-03	0.2236	1.81E-03	0.2254	0.0593	1.66E-03	0.061		214.4502	214.4502	6.3100e-003		214.6080

Total	0.1887	2.8992	1.5569	9.48E-03	0.411	7.83E-03	0.4188	0.1132	7.42E-03	0.1207		997.7379	997.7379	0.0569		999.1603
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3.6 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	0.7539	7.6277	9.3221	0.0134		0.4311	0.4311		0.3967	0.3967		1,297.1559	1,297.1559	0.4195		1,307.6441
Paving	0.1520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9058	7.6277	9.3221	0.0134		0.4311	0.4311		0.3967	0.3967		1,297.1559	1,297.1559	0.4195		1,307.6441

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.9400e-003	0.2417	0.0615	7.4000e-004	0.0175	8.2000e-004	0.0183	4.7900e-003	7.8000e-004	5.5700e-003		79.8565	79.8565	5.3600e-003		79.9905
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.1033	0.3069	0.7980	2.8900e-003	0.2410	2.6300e-003	0.2437	0.0641	2.4400e-003	0.0665		294.3068	294.3068	0.0117		294.5985

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7539	7.6277	9.3221	0.0134		0.4311	0.4311		0.3967	0.3967	0.0000	1,297.1559	1,297.1559	0.4195		1,307.6441
Paving	0.152					0	0		0	0			0.0000			0.0000
Total	0.9058	7.6277	9.3221	0.0134		0.4311	0.4311		0.3967	0.3967	0.0000	1,297.1559	1,297.1559	0.4195		1,307.6441

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.9400e-003	0.2417	0.0615	7.4000e-004	0.0175	8.2000e-004	0.0183	4.7900e-003	7.8000e-004	5.5700e-003		79.8565	79.8565	5.3600e-003		79.9905
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	0.0954	0.0652	0.7365	2.15E-03	0.2236	1.81E-03	0.2254	0.0593	1.66E-03	0.061		214.4502	214.4502	6.3100e-003		214.6080
Total	0.1033	0.3069	0.798	2.89E-03	0.241	2.63E-03	0.2437	0.0641	2.44E-03	0.0665		294.3068	294.3068	0.0117		294.5985

3.7 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	2.8247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.8247	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7700e-003	0.1450	0.0369	4.4000e-004	0.0105	4.9000e-004	0.0110	2.8700e-003	4.7000e-004	3.3400e-003		47.9139	47.9139	3.2200e-003		47.9943
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.1001	0.2102	0.7734	2.5900e-003	0.2340	2.3000e-003	0.2363	0.0622	2.1300e-003	0.0643		262.3642	262.3642	9.5300e-003		262.6023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.8247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0	0	0	0		0	0		0	0	0.0000	0.0000	0.0000	0.0000		0.0000
Total	2.8247	0	0	0		0	0		0	0	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7700e-003	0.1450	0.0369	4.4000e-004	0.0105	4.9000e-004	0.0110	2.8700e-003	4.7000e-004	3.3400e-003		47.9139	47.9139	3.2200e-003		47.9943
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	0.0954	0.0652	0.7365	2.15E-03	0.2236	1.81E-03	0.2254	0.0593	1.66E-03	0.061		214.4502	214.4502	6.3100e-003		214.6080
Total	0.1001	0.2102	0.7734	2.59E-03	0.234	2.30E-03	0.2363	0.0622	2.13E-03	0.0643		262.3642	262.3642	9.5300e-003		262.6023

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	8.0313	36.8468	83.7647	0.2769	22.6847	0.2420	22.9267	6.0703	0.2257	6.2959		28,210.8058	28,210.8058	1.6034		28,250.8908
Unmitigated	8.0313	36.8468	83.7647	0.2769	22.6847	0.2420	22.9267	6.0703	0.2257	6.2959		28,210.8058	28,210.8058	1.6034		28,250.8908

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	5.67	68.25	50.22	60,354	60,354
Fast Food Restaurant w/o Drive Thru	5,728.00	5,568.00	4000.00	9,885,194	9,885,194
Other Asphalt Surfaces	4.83	55.04	40.51	30,971	30,971
Total	5,738.50	5,691.29	4,090.73	9,976,520	9,976,520

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Fast Food Restaurant w/o Drive Thru	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
Other Asphalt Surfaces	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Fast Food Restaurant w/o Drive Thru	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Natural Gas Mitigated	0.0613	0.5572	0.4681	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6737	668.6737	0.0128	0.0123	672.6472

NaturalGas Unmitigated	0.0613	0.5572	0.4681	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6737	668.6737	0.0128	0.0123	672.6472
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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	5683.73	0.0613	0.5572	0.4681	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6737	668.6737	0.0128	0.0123	672.6472	
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	
Total		0.0613	0.5572	0.4681	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6737	668.6737	0.0128	0.0123	672.6472	

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	5.68373	0.0613	0.5572	0.4681	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6737	668.6737	0.0128	0.0123	672.6472
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0613	0.5572	0.4681	3.3400e-003		0.0424	0.0424		0.0424	0.0424		668.6737	668.6737	0.0128	0.0123	672.6472

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1907	5.0000e-005	5.0200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Unmitigated	0.1907	5.0000e-005	5.0200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Total	0.1907	5.0000e-005	5.0200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114
Total	0.1907	5.0000e-005	5.0200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0107	0.0107	3.0000e-005		0.0114

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 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

LARMP - M Trails/Access Gateways - Los Angeles-South Coast County, Annual

LARMP - M Trails/Access Gateways
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.80	Acre	21.80	949,608.00	0
City Park	24.24	Acre	24.24	1,055,894.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	833.99	CH4 Intensity (lb/MW hr)	0.03	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor extrapolated per Table C-1 of LADWP 2017 Power Strategic Long-Term Resource Plan and State's RPS targets. CH4 and N2O intensity factors per eGRID 2018.

Land Use - city park = proxy for multi-use trail with intermittent amenities. 5-mile by 40-ft max width = 24 acres. Added other asphalt surfaces to calculating paving (90% of area).

Construction Phase - Phase length CalEEMod defaults. Architectural coating = landscaping.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

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Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Grading - Material transfer (95,000 CY of soil export and 15,000 of demo material) and area graded per applicant

Demolition - Converted 10,000 CY from applicant to tons per CalEEMod tons per CY conversion factor.

Trips and VMT - commute trips per day and one-way haul trip length per applicant. water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Architectural Coating - VOC g/L per SCAQMD Rule 1113. Parking area default coating rate is 6%. Assuming 4 in. wide painted line across 40-ft wide trail = .83%. Scaled down sq ft accordingly.

Vehicle Trips - Adjusted default of 0 trip in other asphalt surfaces to account for the maintenance vehicle trip avg vmt/day

Vehicle Emission Factors - Vehicle emissions processed for SAFE Rule outside of CalEEMod

Fleet Mix - maintenance vehicles consist of light duty trucks (LDT) and dump trucks (HHD). Adjusted fleet mix based on fleet VMT.

Area Coating - VOC g/L per SCAQMD Rule 1113. Parking area default coating rate is 6%. Assuming 4 in. wide painted line across 40-ft wide trail = .83%. Scaled down sq ft accordingly.

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403, watering 3 times per day reduces PM by 61%

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	56,976.00	7,882.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50

tblAreaCoating	Area_Parking	56976	7882
tblConstructionPhase	NumDays	55.00	50.00
tblConstructionPhase	NumDays	740.00	100.00
tblConstructionPhase	NumDays	50.00	51.00
tblConstructionPhase	NumDays	75.00	100.00
tblConstructionPhase	NumDays	55.00	50.00
tblConstructionPhase	NumDays	30.00	100.00
tblConstructionPhase	PhaseEndDate	11/7/2024	9/23/2022
tblConstructionPhase	PhaseEndDate	6/6/2024	5/6/2022
tblConstructionPhase	PhaseEndDate	3/11/2021	3/12/2021
tblConstructionPhase	PhaseEndDate	8/5/2021	12/17/2021
tblConstructionPhase	PhaseEndDate	8/22/2024	7/15/2022
tblConstructionPhase	PhaseEndDate	4/22/2021	7/30/2021
tblConstructionPhase	PhaseStartDate	8/23/2024	7/16/2022
tblConstructionPhase	PhaseStartDate	8/6/2021	12/18/2021
tblConstructionPhase	PhaseStartDate	4/23/2021	7/31/2021
tblConstructionPhase	PhaseStartDate	6/7/2024	5/7/2022
tblConstructionPhase	PhaseStartDate	3/12/2021	3/13/2021
tblFleetMix	HHD	0.03	0.13
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.87
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00

tblFleetMix	UBUS	2.2010e-003	0.00
tblGrading	AcresOfGrading	50.00	24.24
tblGrading	MaterialExported	0.00	110,000.00
tblOffRoadEquipment	HorsePower	221.00	75.00
tblOffRoadEquipment	HorsePower	81.00	70.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	100.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	187.00	150.00
tblOffRoadEquipment	HorsePower	80.00	75.00
tblOffRoadEquipment	HorsePower	97.00	100.00
tblOffRoadEquipment	HorsePower	63.00	75.00
tblOffRoadEquipment	HorsePower	89.00	100.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	132.00	100.00
tblOffRoadEquipment	HorsePower	80.00	75.00
tblOffRoadEquipment	HorsePower	65.00	25.00
tblOffRoadEquipment	HorsePower	97.00	100.00
tblOffRoadEquipment	HorsePower	231.00	150.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	97.00	150.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37

tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders

tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.03
tblProjectCharacteristics	CO2IntensityFactor	1227.89	833.99
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	1,250.00	1,253.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	13,750.00	13,752.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	329.00	173.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00

tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	842.00	10.00
tblTripsAndVMT	WorkerTripNumber	168.00	5.00
tblVehicleTrips	CC_TTP	0.00	48.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	33.00
tblVehicleTrips	DV_TP	0.00	28.00
tblVehicleTrips	PB_TP	0.00	6.00
tblVehicleTrips	PR_TP	0.00	66.00
tblVehicleTrips	ST_TR	0.00	0.39
tblVehicleTrips	SU_TR	0.00	0.28
tblVehicleTrips	WD_TR	0.00	0.03

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2244	4.2069	1.7813	0.0111	0.3606	0.0716	0.4322	0.0794	0.0665	0.1460	0.0000	1,062.1410	1,062.1410	0.1212	0.0000	1,065.1706
2022	0.1189	1.2964	0.7772	3.1800e-003	0.0581	0.0272	0.0854	0.0166	0.0251	0.0417	0.0000	297.6419	297.6419	0.0437	0.0000	298.7346
Maximum	0.2244	4.2069	1.7813	0.0111	0.3606	0.0716	0.4322	0.0794	0.0665	0.1460	0.0000	1,062.1410	1,062.1410	0.1212	0.0000	1,065.1706

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2244	4.2069	1.7813	0.0111	0.2664	0.0716	0.3380	0.0655	0.0665	0.1321	0.0000	1,062.1408	1,062.1408	0.1212	0.0000	1,065.1703
2022	0.1189	1.2964	0.7772	3.1800e-003	0.0581	0.0272	0.0854	0.0166	0.0251	0.0417	0.0000	297.6418	297.6418	0.0437	0.0000	298.7345
Maximum	0.2244	4.2069	1.7813	0.0111	0.2664	0.0716	0.3380	0.0655	0.0665	0.1321	0.0000	1,062.1408	1,062.1408	0.1212	0.0000	1,065.17

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	22.48	0.00	18.19	14.49	0.00	7.41	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.7657	0.7657
2	4-1-2021	6-30-2021	0.3160	0.3160
3	7-1-2021	9-30-2021	1.4427	1.4427
4	10-1-2021	12-31-2021	1.8295	1.8295
5	1-1-2022	3-31-2022	0.7074	0.7074
6	4-1-2022	6-30-2022	0.4313	0.4313
7	7-1-2022	9-30-2022	0.2644	0.2644
		Highest	1.8295	1.8295

2.2 Overall Operational Unmitigated Operational

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

Area	0.0723	1.0000e-005	5.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.22E-03
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Mobile	0.0495	0.2614	0.6417	2.3100e-003	0.1879	1.9400e-003	0.1899	0.0504	1.8100e-003	0.0522	0.0000	213.5851	213.5851	0.0112	0.0000	213.8643
Waste						0.0000	0.0000		0.0000	0.0000	0.4222	0.0000	0.4222	0.0250	0.0000	1.046
Water						0.0000	0.0000		0.0000	0.0000	0.0000	121.3837	121.3837	4.3700e-003	5.8000e-004	121.6664
Total	0.1218	0.2614	0.6423	2.3100e-003	0.1879	1.9400e-003	0.1899	0.0504	1.8100e-003	0.0522	0.4222	334.9700	335.3922	0.0405	5.8000e-004	336.5779

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0723	1.0000e-005	5.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0495	0.2614	0.6417	2.3100e-003	0.1879	1.9400e-003	0.1899	0.0504	1.8100e-003	0.0522	0.0000	213.5851	213.5851	0.0112	0.0000	213.8643
Waste						0.0000	0.0000		0.0000	0.0000	0.4222	0.0000	0.4222	0.0250	0.0000	1.0460
Water						0.0000	0.0000		0.0000	0.0000	0.0000	121.3837	121.3837	4.3700e-003	5.8000e-004	121.6664
Total	0.1218	0.2614	0.6423	2.3100e-003	0.1879	1.9400e-003	0.1899	0.0504	1.8100e-003	0.0522	0.4222	334.9700	335.3922	0.0405	5.8000e-004	336.5779

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	3/12/2021	5	51	
2	Site Preparation	Site Preparation	3/13/2021	7/30/2021	5	100	
3	Grading	Grading	7/31/2021	12/17/2021	5	100	
4	Building Construction	Building Construction	12/18/2021	5/6/2022	5	100	
5	Paving	Paving	5/7/2022	7/15/2022	5	50	
6	Architectural Coating	Architectural Coating	7/16/2022	9/23/2022	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 24.24

Acres of Paving: 21.8

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 7,882

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	75	0.50
Demolition	Concrete/Industrial Saws	1	8.00	70	0.73
Demolition	Excavators	1	8.00	300	0.38
Demolition	Tractors/Loaders/Backhoes	2	8.00	250	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	100	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	200	0.37
Grading	Graders	1	8.00	150	0.41
Grading	Rollers	1	8.00	75	0.38
Grading	Tractors/Loaders/Backhoes	1	8.00	100	0.37
Building Construction	Aerial Lifts	1	8.00	75	0.31
Building Construction	Forklifts	1	8.00	100	0.20

Building Construction	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Paving	Paving Equipment	1	8.00	100	0.36
Paving	Rollers	1	8.00	75	0.38
Paving	Skid Steer Loaders	1	8.00	25	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	100	0.37
Architectural Coating	Cranes	1	8.00	150	0.29
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	200	0.37
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	150	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	5.00	0.00	1,253.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	5.00	0.00	2.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Grading	3	5.00	0.00	13,752.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	10.00	173.00	0.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	2.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	5.00	0.00	3.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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	tons/yr										MT/yr					

Fugitive Dust					0.1352	0.0000	0.1352	0.0205	0.0000	0.0205	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.4264	0.3487	9.5000e-004		0.0178	0.0178		0.0167	0.0167	0.0000	83.2573	83.2573	0.0238	0.0000	83.8519
Total	0.0416	0.4264	0.3487	9.5000e-004	0.1352	0.0178	0.1530	0.0205	0.0167	0.0372	0.0000	83.2573	83.2573	0.0238	0.0000	83.8519

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.3900e-003	0.2314	0.0565	7.0000e-004	0.0161	7.7000e-004	0.0169	4.4300e-003	7.3000e-004	5.1700e-003	0.0000	68.5632	68.5632	4.5000e-003	0.0000	68.6758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.3000e-004	4.8200e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2609	1.2609	4.0000e-005	0.0000	1.2618
Total	7.9400e-003	0.2318	0.0613	7.1000e-004	0.0175	7.8000e-004	0.0183	4.8000e-003	7.4000e-004	5.5500e-003	0.0000	69.8241	69.8241	4.5400e-003	0.0000	69.9376

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0527	0.0000	0.0527	7.9900e-003	0.0000	7.9900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0
Off-Road	0.0416	0.4264	0.3487	9.5000e-004		0.0178	0.0178		0.0167	0.0167	0.0000	83.2572	83.2572	0.0238	0.0000	83.8518
Total	0.0416	0.4264	0.3487	9.5000e-004	0.0527	0.0178	0.0705	7.9900e-003	0.0167	0.0247	0.0000	83.2572	83.2572	0.0238	0.0000	83.8518

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.3900e-003	0.2314	0.0565	7.0000e-004	0.0161	7.7000e-004	0.0169	4.4300e-003	7.3000e-004	5.1700e-003	0.0000	68.5632	68.5632	4.5000e-003	0.0000	68.6758
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	5.5000e-004	4.3000e-004	4.8200e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2609	1.2609	4.0000e-005	0.0000	1.2618
Total	7.9400e-003	0.2318	0.0613	7.1000e-004	0.0175	7.8000e-004	0.0183	4.8000e-003	7.4000e-004	5.5500e-003	0.0000	69.8241	69.8241	4.5400e-003	0.0000	69.9376

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0402	0.4438	0.2895	8.7000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	76.4397	76.4397	0.0247	0.0000	77.0578
Total	0.0402	0.4438	0.2895	8.7000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	76.4397	76.4397	0.0247	0.0000	77.0578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.7000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1094	0.1094	1.0000e-005	0.0000	0.1096
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	8.4000e-004	9.4500e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4723	2.4723	7.0000e-005	0.0000	2.4741
Total	1.0900e-003	1.2100e-003	9.5400e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.5817	2.5817	8.0000e-005	0.0000	2.5837

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0402	0.4438	0.2895	8.7000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	76.4396	76.4396	0.0247	0.0000	77.0577
Total	0.0402	0.4438	0.2895	8.7000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	76.4396	76.4396	0.0247	0.0000	77.0577

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.7000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1094	0.1094	1.0000e-005	0.0000	0.1096

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	1.0800e-003	8.4000e-004	9.4500e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4723	2.4723	7.0000e-005	0.0000	2.4741
Total	1.0900e-003	1.2100e-003	9.5400e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.5817	2.5817	8.0000e-005	0.0000	2.5837

3.4 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	tons/yr										MT/yr					
Fugitive Dust					0.0191	0.0000	0.0191	2.3300e-003	0.0000	2.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0457	0.4480	0.3955	5.5000e-004		0.0258	0.0258		0.0237	0.0237	0.0000	48.1511	48.1511	0.0156	0.0000	48.5404
Total	0.0457	0.4480	0.3955	5.5000e-004	0.0191	0.0258	0.0449	2.3300e-003	0.0237	0.0261	0.0000	48.1511	48.1511	0.0156	0.0000	48.5404

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0811	2.5398	0.6196	7.6400e-003	0.1772	8.4000e-003	0.1856	0.0487	8.0400e-003	0.0567	0.0000	752.4990	752.4990	0.0494	0.0000	753.7350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	8.4000e-004	9.4500e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4723	2.4723	7.0000e-005	0.0000	2.4741
Total	0.0822	2.5406	0.6291	7.6700e-003	0.1799	8.4200e-003	0.1884	0.0494	8.0600e-003	0.0574	0.0000	754.9713	754.9713	0.0495	0.0000	756.2091

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4400e-003	0.0000	7.4400e-003	9.1000e-004	0.0000	9.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0
Off-Road	0.0457	0.4480	0.3955	5.5000e-004		0.0258	0.0258		0.0237	0.0237	0.0000	48.1511	48.1511	0.0156	0.0000	48.5404
Total	0.0457	0.4480	0.3955	5.5000e-004	7.4400e-003	0.0258	0.0332	9.1000e-004	0.0237	0.0246	0.0000	48.1511	48.1511	0.0156	0.0000	48.5404

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0811	2.5398	0.6196	7.6400e-003	0.1772	8.4000e-003	0.1856	0.0487	8.0400e-003	0.0567	0.0000	752.4990	752.4990	0.0494	0.0000	753.735
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	1.0800e-003	8.4000e-004	9.4500e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4723	2.4723	7.0000e-005	0.0000	2.4741
Total	0.0822	2.5406	0.6291	7.6700e-003	0.1799	8.4200e-003	0.1884	0.0494	8.0600e-003	0.0574	0.0000	754.9713	754.9713	0.0495	0.0000	756.2091

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6500e-003	0.0295	0.0227	6.0000e-005		1.1900e-003	1.1900e-003		1.0900e-003	1.0900e-003	0.0000	5.0994	5.0994	1.6500e-003	0.0000	5.1406
Total	2.6500e-003	0.0295	0.0227	6.0000e-005		1.1900e-003	1.1900e-003		1.0900e-003	1.0900e-003	0.0000	5.0994	5.0994	1.6500e-003	0.0000	5.1406

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6900e-003	0.0854	0.0231	2.2000e-004	5.4500e-003	1.7000e-004	5.6200e-003	1.5700e-003	1.7000e-004	1.7400e-003	0.0000	21.3220	21.3220	1.3100e-003	0.0000	21.3547
Worker	2.2000e-004	1.7000e-004	1.8900e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4945	0.4945	1.0000e-005	0.0000	0.4948
Total	2.9100e-003	0.0855	0.0250	2.3000e-004	6.0000e-003	1.7000e-004	6.1700e-003	1.7200e-003	1.7000e-004	1.8900e-003	0.0000	21.8164	21.8164	1.3200e-003	0.0000	21.8495

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6500e-003	0.0295	0.0227	6.0000e-005		1.1900e-003	1.1900e-003		1.0900e-003	1.0900e-003	0.0000	5.0994	5.0994	1.6500e-003	0.0000	5.1406

Total	2.6500e-003	0.0295	0.0227	6.0000e-005		1.1900e-003	1.1900e-003		1.0900e-003	1.0900e-003	0.0000	5.0994	5.0994	1.6500e-003	0.0000	5.1406
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Vendor	2.6900e-003	0.0854	0.0231	2.2000e-004	5.4500e-003	1.7000e-004	5.6200e-003	1.5700e-003	1.7000e-004	1.7400e-003	0.0000	21.3220	21.3220	1.3100e-003	0.0000	21.3547
Worker	2.2000e-004	1.7000e-004	1.8900e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4945	0.4945	1.0000e-005	0.0000	0.4948
Total	2.9100e-003	0.0855	0.0250	2.3000e-004	6.0000e-003	1.7000e-004	6.1700e-003	1.7200e-003	1.7000e-004	1.8900e-003	0.0000	21.8164	21.8164	1.3200e-003	0.0000	21.8495

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0214	0.2255	0.2019	5.2000e-004		9.0100e-003	9.0100e-003		8.2800e-003	8.2800e-003	0.0000	45.8646	45.8646	0.0148	0.0000	46.2354
Total	0.0214	0.2255	0.2019	5.2000e-004		9.0100e-003	9.0100e-003		8.2800e-003	8.2800e-003	0.0000	45.8646	45.8646	0.0148	0.0000	46.2354

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0227	0.7299	0.1971	1.9600e-003	0.0490	1.3700e-003	0.0504	0.0142	1.3100e-003	0.0155	0.0000	190.2121	190.2121	0.0114	0.0000	190.4961
Worker	1.8200e-003	1.3600e-003	0.0157	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.2937	4.2937	1.2000e-004	0.0000	4.2967
Total	0.0245	0.7313	0.2128	2.0100e-003	0.0540	1.4100e-003	0.0554	0.0155	1.3500e-003	0.0168	0.0000	194.5058	194.5058	0.0115	0.0000	194.7928

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0214	0.2255	0.2019	5.2000e-004		9.0100e-003	9.0100e-003		8.2800e-003	8.2800e-003	0.0000	45.8645	45.8645	0.0148	0.0000	46.2353
Total	0.0214	0.2255	0.2019	5.2000e-004		9.0100e-003	9.0100e-003		8.2800e-003	8.2800e-003	0.0000	45.8645	45.8645	0.0148	0.0000	46.2353

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0227	0.7299	0.1971	1.9600e-003	0.0490	1.3700e-003	0.0504	0.0142	1.3100e-003	0.0155	0.0000	190.2121	190.2121	0.0114	0.0000	190.4961
Worker	1.8200e-003	1.3600e-003	0.0157	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.2937	4.2937	1.2000e-004	0.0000	4.2967
Total	0.0245	0.7313	0.2128	2.0100e-003	0.0540	1.4100e-003	0.0554	0.0155	1.3500e-003	0.0168	0.0000	194.5058	194.5058	0.0115	0.0000	194.7928

3.6 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	tons/yr										MT/yr					
Off-Road	0.0142	0.1439	0.1702	2.4000e-004		7.7100e-003	7.7100e-003		7.0900e-003	7.0900e-003	0.0000	21.0171	21.0171	6.8000e-003	0.0000	21.1871
Paving	0.0286					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0428	0.1439	0.1702	2.4000e-004		7.7100e-003	7.7100e-003		7.0900e-003	7.0900e-003	0.0000	21.0171	21.0171	6.8000e-003	0.0000	21.1871

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.4000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1081	0.1081	1.0000e-005	0.0000	0.1083
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Worker	1.0100e-003	7.6000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3854	2.3854	7.0000e-005	0.0000	2.3870
Total	1.0200e-003	1.1000e-003	8.8000e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.4935	2.4935	8.0000e-005	0.0000	2.4953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1439	0.1702	2.4000e-004		7.7100e-003	7.7100e-003		7.0900e-003	7.0900e-003	0.0000	21.0171	21.0171	6.8000e-003	0.0000	21.187
Paving	0.0286					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0428	0.1439	0.1702	2.4000e-004		7.7100e-003	7.7100e-003		7.0900e-003	7.0900e-003	0.0000	21.0171	21.0171	6.8000e-003	0.0000	21.1870

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.4000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1081	0.1081	1.0000e-005	0.0000	0.1083
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	1.0100e-003	7.6000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3854	2.3854	7.0000e-005	0.0000	2.387
Total	1.0200e-003	1.1000e-003	8.8000e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.4935	2.4935	8.0000e-005	0.0000	2.4953

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	tons/yr										MT/yr					
Archit. Coating	9.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0197	0.1938	0.1791	3.7000e-004		9.0400e-003	9.0400e-003		8.3200e-003	8.3200e-003	0.0000	32.4061	32.4061	0.0105	0.0000	32.6681
Total	0.0288	0.1938	0.1791	3.7000e-004		9.0400e-003	9.0400e-003		8.3200e-003	8.3200e-003	0.0000	32.4061	32.4061	0.0105	0.0000	32.6681

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.1000e-004	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1622	0.1622	1.0000e-005	0.0000	0.1625
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.8000e-004	4.3600e-003	1.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1927	1.1927	3.0000e-005	0.0000	1.1935
Total	5.2000e-004	8.9000e-004	4.4900e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4200e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.3549	1.3549	4.0000e-005	0.0000	1.3560

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Archit. Coating	9.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0	
Off-Road	0.0197	0.1938	0.1791	3.7000e-004		9.0400e-003	9.0400e-003		8.3200e-003	8.3200e-003	0.0000	32.4060	32.4060	0.0105	0.0000	32.668
Total	0.0288	0.1938	0.1791	3.7000e-004		9.0400e-003	9.0400e-003		8.3200e-003	8.3200e-003	0.0000	32.4060	32.4060	0.0105	0.0000	32.6680

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.1000e-004	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1622	0.1622	1.0000e-005	0.0000	0.1625
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0
Worker	5.0000e-004	3.8000e-004	4.3600e-003	1.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1927	1.1927	3.0000e-005	0.0000	1.1935
Total	5.2000e-004	8.9000e-004	4.4900e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4200e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.3549	1.3549	4.0000e-005	0.0000	1.3560

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
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Category	tons/yr										MT/yr					
	0.0495	0.2614	0.6417	2.3100e-003	0.1879	1.9400e-003	0.1899	0.0504	1.8100e-003	0.0522	0.0000	213.5851	213.5851	0.0112	0.0000	213.8643
Mitigated	0.0495	0.2614	0.6417	2.3100e-003	0.1879	1.9400e-003	0.1899	0.0504	1.8100e-003	0.0522	0.0000	213.5851	213.5851	0.0112	0.0000	213.8643
Unmitigated	0.0495	0.2614	0.6417	2.3100e-003	0.1879	1.9400e-003	0.1899	0.0504	1.8100e-003	0.0522	0.0000	213.5851	213.5851	0.0112	0.0000	213.8643

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	45.81	551.46	405.78	487,663	487,663
Other Asphalt Surfaces	0.70	8.43	6.20	7,454	7,454
Total	46.51	559.89	411.98	495,117	495,117

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	0.870000	0.000000	0.000000	0.000000	0.000000	0.130000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

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

City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0723	1.0000e-005	5.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003
Unmitigated	0.0723	1.0000e-005	5.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0713					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	1.0000e-005	5.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.22E-03
Total	0.0723	1.0000e-005	5.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0713					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	1.0000e-005	5.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003
Total	0.0723	1.0000e-005	5.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	121.3837	4.3700e-003	5.8000e-004	121.6664
Unmitigated	121.3837	4.3700e-003	5.8000e-004	121.6664

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 28.8815	121.3837	4.3700e-003	5.8000e-004	121.6664
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		121.3837	4.3700e-003	5.8000e-004	121.6664

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 28.8815	121.3837	4.3700e-003	5.8000e-004	121.6664
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		121.3837	4.3700e-003	5.8000e-004	121.6664

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	0.4222	0.0250	0.0000	1.0460
Unmitigated	0.4222	0.0250	0.0000	1.0460

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	2.08	0.4222	0.0250	0.0000	1.0460
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.4222	0.0250	0.0000	1.0460

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	2.08	0.4222	0.0250	0.0000	1.0460
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.4222	0.0250	0.0000	1.0460

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

LARMP - M Trails/Access Gateways - Los Angeles-South Coast County, Winter

**LARMP - M Trails/Access Gateways
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.80	Acre	21.80	949,608.00	0
City Park	24.24	Acre	24.24	1,055,894.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	833.99	CH4 Intensity (lb/MWhr)	0.03	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor extrapolated per Table C-1 of LADWP 2017 Power Strategic Long-Term Resource Plan and State's RPS targets. CH4 and N2O intensity factors per eGRID 2018.

Land Use - city park = proxy for multi-use trail with intermittent amenities. 5-mile by 40-ft max width = 24 acres. Added other asphalt surfaces to calculating paving (90% of area).

Construction Phase - Phase length CalEEMod defaults. Architectural coating = landscaping.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Off-road Equipment - water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Grading - Material transfer (95,000 CY of soil export and 15,000 of demo material) and area graded per applicant

Demolition - Converted 10,000 CY from applicant to tons per CalEEMod tons per CY conversion factor.

Trips and VMT - commute trips per day and one-way haul trip length per applicant. water trucks, dump trucks, and/or utility trucks onsite accounted for in Trips and VMT at 5 mph * 8 hours = 40 miles per vehicle.

Vehicle Trips - Adjusted default of 0 trip in other asphalt surfaces to account for the maintenance vehicle trip avg vmt/day

Vehicle Emission Factors - Vehicle emissions processed for SAFE Rule outside of CalEEMod

Fleet Mix - maintenance vehicles consist of light duty trucks (LDT) and dump trucks (HHD). Adjusted fleet mix based on fleet VMT.

Area Coating - VOC g/L per SCAQMD Rule 1113. Parking area default coating rate is 6%. Assuming 4 in. wide painted line across 40-ft wide trail = .83%. Scaled down sq ft accordingly.

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403, watering 3 times per day reduces PM by 61%

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	56,976.00	7,882.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_Parking	56976	7882
tblConstructionPhase	NumDays	55.00	50.00
tblConstructionPhase	NumDays	740.00	100.00
tblConstructionPhase	NumDays	50.00	51.00
tblConstructionPhase	NumDays	75.00	100.00
tblConstructionPhase	NumDays	55.00	50.00
tblConstructionPhase	NumDays	30.00	100.00
tblConstructionPhase	PhaseEndDate	11/7/2024	9/23/2022
tblConstructionPhase	PhaseEndDate	6/6/2024	5/6/2022

tblConstructionPhase	PhaseEndDate	3/11/2021	3/12/2021
tblConstructionPhase	PhaseEndDate	8/5/2021	12/17/2021
tblConstructionPhase	PhaseEndDate	8/22/2024	7/15/2022
tblConstructionPhase	PhaseEndDate	4/22/2021	7/30/2021
tblConstructionPhase	PhaseStartDate	8/23/2024	7/16/2022
tblConstructionPhase	PhaseStartDate	8/6/2021	12/18/2021
tblConstructionPhase	PhaseStartDate	4/23/2021	7/31/2021
tblConstructionPhase	PhaseStartDate	6/7/2024	5/7/2022
tblConstructionPhase	PhaseStartDate	3/12/2021	3/13/2021
tblFleetMix	HHD	0.03	0.13
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.87
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblGrading	AcresOfGrading	50.00	24.24
tblGrading	MaterialExported	0.00	110,000.00
tblOffRoadEquipment	HorsePower	221.00	75.00
tblOffRoadEquipment	HorsePower	81.00	70.00
tblOffRoadEquipment	HorsePower	158.00	300.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	100.00
tblOffRoadEquipment	HorsePower	97.00	250.00

tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	187.00	150.00
tblOffRoadEquipment	HorsePower	80.00	75.00
tblOffRoadEquipment	HorsePower	97.00	100.00
tblOffRoadEquipment	HorsePower	63.00	75.00
tblOffRoadEquipment	HorsePower	89.00	100.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	132.00	100.00
tblOffRoadEquipment	HorsePower	80.00	75.00
tblOffRoadEquipment	HorsePower	65.00	25.00
tblOffRoadEquipment	HorsePower	97.00	100.00
tblOffRoadEquipment	HorsePower	231.00	150.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	97.00	150.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37

tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.03
tblProjectCharacteristics	CO2IntensityFactor	1227.89	833.99
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	1,250.00	1,253.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	13,750.00	13,752.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	329.00	173.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	842.00	10.00
tblTripsAndVMT	WorkerTripNumber	168.00	5.00
tblVehicleTrips	CC_TTP	0.00	48.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	33.00
tblVehicleTrips	DV_TP	0.00	28.00
tblVehicleTrips	PB_TP	0.00	6.00

tblVehicleTrips	PR_TP	0.00	66.00
tblVehicleTrips	ST_TR	0.00	0.39
tblVehicleTrips	SU_TR	0.00	0.28
tblVehicleTrips	WD_TR	0.00	0.03

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	2.5764	58.8246	20.7761	0.1633	6.0036	0.7286	6.7323	1.0496	0.6834	1.6861	0.0000	17,587.9709	17,587.9709	1.4505	0.0000	17,624.2338
2022	1.7550	20.9697	9.4234	0.0555	1.2194	0.3622	1.4514	0.3485	0.3332	0.5631	0.0000	5,810.9322	5,810.9322	0.6543	0.0000	5,827.2896
Maximum	2.5764	58.8246	20.7761	0.1633	6.0036	0.7286	6.7323	1.0496	0.6834	1.6861	0.0000	17,587.9709	17,587.9709	1.4505	0.0000	17,624.2338

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	2.5764	58.8246	20.7761	0.1633	3.8101	0.7286	4.4952	1.0212	0.6834	1.6577	0.0000	17,587.9709	17,587.9709	1.4505	0.0000	17,624.2338
2022	1.7550	20.9697	9.4234	0.0555	1.2194	0.3622	1.4514	0.3485	0.3332	0.5631	0.0000	5,810.9322	5,810.9322	0.6543	0.0000	5,827.2896
Maximum	2.5764	58.8246	20.7761	0.1633	3.8101	0.7286	4.4952	1.0212	0.6834	1.6577	0.0000	17,587.9709	17,587.9709	1.4505	0.0000	17,624.2338

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	30.37	0.00	27.34	2.03	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3962	4.00E-05	4.71E-03	0		2.00E-05	2.00E-05		2.00E-05	2.00E-05		0.0101	0.0101	3.0000e-005		0.0107
Energy	0	0	0	0		0	0		0	0		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9079	4.5889	11.3284	0.0407	3.426	0.0348	3.4607	0.9168	0.0325	0.9492		4,149.2259	4,149.2259	0.2214		4,154.7595
Total	1.3041	4.5889	11.3331	0.0407	3.4260	0.0348	3.4608	0.9168	0.0325	0.9493		4,149.2360	4,149.2360	0.2214	0.0000	4,154.7703

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3962	4.0000e-005	4.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0101	0.0101	3.0000e-005		0.0107
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9079	4.5889	11.3284	0.0407	3.4260	0.0348	3.4607	0.9168	0.0325	0.9492		4,149.2259	4,149.2259	0.2214		4,154.7595
Total	1.3041	4.5889	11.3331	0.0407	3.4260	0.0348	3.4608	0.9168	0.0325	0.9493		4,149.2360	4,149.2360	0.2214	0.0000	4,154.7703

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	3/12/2021	5	51	
2	Site Preparation	Site Preparation	3/13/2021	7/30/2021	5	100	
3	Grading	Grading	7/31/2021	12/17/2021	5	100	
4	Building Construction	Building Construction	12/18/2021	5/6/2022	5	100	
5	Paving	Paving	5/7/2022	7/15/2022	5	50	
6	Architectural Coating	Architectural Coating	7/16/2022	9/23/2022	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 24.24

Acres of Paving: 21.8

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 7,882

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	75	0.50
Demolition	Concrete/Industrial Saws	1	8.00	70	0.73
Demolition	Excavators	1	8.00	300	0.38
Demolition	Tractors/Loaders/Backhoes	2	8.00	250	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	100	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	200	0.37

Grading	Graders	1	8.00	150	0.41
Grading	Rollers	1	8.00	75	0.38
Grading	Tractors/Loaders/Backhoes	1	8.00	100	0.37
Building Construction	Aerial Lifts	1	8.00	75	0.31
Building Construction	Forklifts	1	8.00	100	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	250	0.37
Paving	Paving Equipment	1	8.00	100	0.36
Paving	Rollers	1	8.00	75	0.38
Paving	Skid Steer Loaders	1	8.00	25	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	100	0.37
Architectural Coating	Cranes	1	8.00	150	0.29
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	200	0.37
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	150	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	5.00	0.00	1,253.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	5.00	0.00	2.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Grading	3	5.00	0.00	13,752.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	10.00	173.00	0.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	2.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	5.00	0.00	3.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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					5.3036	0.0000	5.3036	0.8030	0.0000	0.8030			0.0000			0.0000
Off-Road	1.6327	16.7226	13.6757	0.0373		0.698	0.698		0.6541	0.6541		3,599.0374	3,599.0374	1.0281		3,624.7398
Total	1.6327	16.7226	13.6757	0.0373	5.3036	0.698	6.0016	0.803	0.6541	1.4571		3,599.0374	3,599.0374	1.0281		3,624.7398

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2927	8.9056	2.2658	0.0271	0.6441	0.0302	0.6743	0.1765	0.0289	0.2054		2,942.9486	2,942.9486	0.1975		2,947.8866
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	0.0238	0.0163	0.1841	5.40E-04	0.0559	4.50E-04	0.0563	0.0148	4.20E-04	0.0152		53.6126	53.6126	1.5800e-003		53.6520
Total	0.3166	8.9219	2.4499	0.0277	0.7	0.0307	0.7307	0.1914	0.0293	0.2207		2,996.5611	2,996.5611	0.1991		3,001.5386

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.0684	0.0000	2.0684	0.3132	0.0000	0.3132			0.0000			0.0000
Off-Road	1.6327	16.7226	13.6757	0.0373		0.698	0.698		0.6541	0.6541	0.0000	3,599.0374	3,599.0374	1.0281		3,624.7398
Total	1.6327	16.7226	13.6757	0.0373	2.0684	0.698	2.7664	0.3132	0.6541	0.9673	0.0000	3,599.0374	3,599.0374	1.0281		3,624.7398

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2927	8.9056	2.2658	0.0271	0.6441	0.0302	0.6743	0.1765	0.0289	0.2054		2,942.9486	2,942.9486	0.1975		2,947.8866
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	0.0238	0.0163	0.1841	5.40E-04	0.0559	4.50E-04	0.0563	0.0148	4.20E-04	0.0152		53.6126	53.6126	1.58E-03		53.652
Total	0.3166	8.9219	2.4499	0.0277	0.7	0.0307	0.7307	0.1914	0.0293	0.2207		2,996.56	2,996.56	0.1991		3,001.54

3.3 Site Preparation - 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	0.8048	8.8757	5.7895	0.0174		0.3487	0.3487		0.3208	0.3208		1,685.2071	1,685.2071	0.5450		1,698.8328
Total	0.8048	8.8757	5.7895	0.0174		0.3487	0.3487		0.3208	0.3208		1,685.2071	1,685.2071	0.5450		1,698.8328

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4000e-004	7.2500e-003	1.8400e-003	2.0000e-005	5.2000e-004	2.0000e-005	5.5000e-004	1.4000e-004	2.0000e-005	1.7000e-004		2.3957	2.3957	1.6000e-004		2.3997
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	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
Total	0.0241	0.0236	0.1860	5.6000e-004	0.0564	4.7000e-004	0.0569	0.0150	4.4000e-004	0.0154		56.0083	56.0083	1.7400e-003		56.0517

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8048	8.8757	5.7895	0.0174		0.3487	0.3487		0.3208	0.3208	0.0000	1,685.2071	1,685.2071	0.5450		1,698.8328
Total	0.8048	8.8757	5.7895	0.0174		0.3487	0.3487		0.3208	0.3208	0.0000	1,685.2071	1,685.2071	0.5450		1,698.8328

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4000e-004	7.2500e-003	1.8400e-003	2.0000e-005	5.2000e-004	2.0000e-005	5.5000e-004	1.4000e-004	2.0000e-005	1.7000e-004		2.3957	2.3957	1.6000e-004		2.3997
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	0.0238	0.0163	0.1841	5.40E-04	0.0559	4.50E-04	0.0563	0.0148	4.20E-04	0.0152		53.6126	53.6126	1.5800e-003		53.6520
Total	0.0241	0.0236	0.186	5.60E-04	0.0564	4.70E-04	0.0569	0.015	4.40E-04	0.0154		56.0083	56.0083	1.7400e-003		56.0517

3.4 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					0.3815	0.0000	0.3815	0.0466	0.0000	0.0466			0.0000			0.0000
Off-Road	0.9141	8.9603	7.9094	0.0110		0.5156	0.5156		0.4743	0.4743		1,061.5503	1,061.5503	0.3433		1,070.1335
Total	0.9141	8.9603	7.9094	0.0110	0.3815	0.5156	0.8970	0.0466	0.4743	0.5209		1,061.5503	1,061.5503	0.3433		1,070.1335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6385	49.8480	12.6825	0.1518	3.6054	0.1691	3.7745	0.9882	0.1618	1.1500		16,472.8081	16,472.8081	1.1056		16,500.4484

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	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
Total	1.6624	49.8643	12.8667	0.1523	3.6613	0.1695	3.8309	1.0030	0.1622	1.1652		16,526.4206	16,526.4206	1.1072		16,554.1003

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1488	0.0000	0.1488	0.0182	0.0000	0.0182			0.0000			0.0000
Off-Road	0.9141	8.9603	7.9094	0.011		0.5156	0.5156		0.4743	0.4743	0.0000	1,061.5503	1,061.5503	0.3433		1,070.1335
Total	0.9141	8.9603	7.9094	0.011	0.1488	0.5156	0.6643	0.0182	0.4743	0.4925	0.0000	1,061.5503	1,061.5503	0.3433		1,070.1335

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6385	49.8480	12.6825	0.1518	3.6054	0.1691	3.7745	0.9882	0.1618	1.1500		16,472.8081	16,472.8081	1.1056		16,500.4484
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	0.0238	0.0163	0.1841	5.40E-04	0.0559	4.50E-04	0.0563	0.0148	4.20E-04	0.0152		53.6126	53.6126	1.5800e-003		53.6520
Total	1.6624	49.8643	12.8667	0.1523	3.6613	0.1695	3.8309	1.003	0.1622	1.1652		16,526.4206	16,526.4206	1.1072		16,554.1003

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	0.5307	5.8919	4.5408	0.0116		0.2380	0.2380		0.2190	0.2190		1,124.2174	1,124.2174	0.3636		1,133.3072
Total	0.5307	5.8919	4.5408	0.0116		0.2380	0.2380		0.2190	0.2190		1,124.2174	1,124.2174	0.3636		1,133.3072

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5520	16.7618	4.8573	0.0433	1.1076	0.0355	1.1430	0.3189	0.0339	0.3528		4,625.0776	4,625.0776	0.2986		4,632.5421
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	0.5997	16.7944	5.2256	0.0444	1.2194	0.0364	1.2557	0.3485	0.0347	0.3833		4,732.3027	4,732.3027	0.3017		4,739.8461

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5307	5.8919	4.5408	0.0116		0.238	0.238		0.219	0.219	0.0000	1,124.2174	1,124.2174	0.3636		1,133.3072
Total	0.5307	5.8919	4.5408	0.0116		0.238	0.238		0.219	0.219	0.0000	1,124.2174	1,124.2174	0.3636		1,133.3072

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5520	16.7618	4.8573	0.0433	1.1076	0.0355	1.1430	0.3189	0.0339	0.3528		4,625.0776	4,625.0776	0.2986		4,632.5421
Worker	0.0477	0.0326	0.3683	1.08E-03	0.1118	9.00E-04	0.1127	0.0296	8.30E-04	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	0.5997	16.7944	5.2256	0.0444	1.2194	0.0364	1.2557	0.3485	0.0347	0.3833		4,732.3027	4,732.3027	0.3017		4,739.8461

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	0.4748	5.0105	4.4864	0.0116		0.2001	0.2001		0.1841	0.1841		1,123.4894	1,123.4894	0.3634		1,132.5733

Total	0.4748	5.0105	4.4864	0.0116		0.2001	0.2001		0.1841	0.1841		1,123.4894	1,123.4894	0.3634		1,132.5733
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5182	15.9297	4.5978	0.0429	1.1076	0.0310	1.1386	0.3189	0.0297	0.3486		4,583.9858	4,583.9858	0.2881		4,591.1881
Worker	0.0448	0.0295	0.3392	1.0400e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		103.4570	103.4570	2.8500e-003		103.5282
Total	0.5630	15.9592	4.9370	0.0439	1.2194	0.0319	1.2513	0.3485	0.0305	0.3790		4,687.4428	4,687.4428	0.2909		4,694.7163

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4748	5.0105	4.4864	0.0116		0.2001	0.2001		0.1841	0.1841	0.0000	1,123.4894	1,123.4894	0.3634		1,132.5733
Total	0.4748	5.0105	4.4864	0.0116		0.2001	0.2001		0.1841	0.1841	0.0000	1,123.4894	1,123.4894	0.3634		1,132.5733

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5182	15.9297	4.5978	0.0429	1.1076	0.0310	1.1386	0.3189	0.0297	0.3486		4,583.9858	4,583.9858	0.2881		4,591.1881
Worker	0.0448	0.0295	0.3392	1.04E-03	0.1118	8.70E-04	0.1127	0.0296	8.10E-04	0.0305		103.4570	103.4570	2.8500e-003		103.5282
Total	0.563	15.9592	4.937	0.0439	1.2194	0.0319	1.2513	0.3485	0.0305	0.379		4,687.4428	4,687.4428	0.2909		4,694.7163

3.6 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	0.5674	5.7544	6.8064	9.5700e-003		0.3085	0.3085		0.2838	0.2838		926.6965	926.6965	0.2997		934.1893
Paving	1.1423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7098	5.7544	6.8064	9.5700e-003		0.3085	0.3085		0.2838	0.2838		926.6965	926.6965	0.2997		934.1893

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Hauling	4.5000e-004	0.0134	3.6500e-003	4.0000e-005	1.0500e-003	4.0000e-005	1.0900e-003	2.9000e-004	4.0000e-005	3.3000e-004		4.7334	4.7334	3.2000e-004	4.7413
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	0.0448	0.0295	0.3392	1.0400e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		103.4570	103.4570	2.8500e-003	103.5282
Total	0.0452	0.0428	0.3428	1.0800e-003	0.1128	9.1000e-004	0.1137	0.0299	8.5000e-004	0.0308		108.1903	108.1903	3.1700e-003	108.2695

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5674	5.7544	6.8064	9.5700e-003		0.3085	0.3085		0.2838	0.2838	0.0000	926.6965	926.6965	0.2997		934.1893
Paving	1.1423					0	0		0	0			0.0000			0.0000
Total	1.7098	5.7544	6.8064	9.57E-03		0.3085	0.3085		0.2838	0.2838	0.0000	926.6965	926.6965	0.2997		934.1893

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5000e-004	0.0134	3.6500e-003	4.0000e-005	1.0500e-003	4.0000e-005	1.0900e-003	2.9000e-004	4.0000e-005	3.3000e-004		4.7334	4.7334	3.2000e-004		4.7413
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	0.0448	0.0295	0.3392	1.04E-03	0.1118	8.70E-04	0.1127	0.0296	8.10E-04	0.0305		103.4570	103.4570	2.8500e-003		103.5282
Total	0.0452	0.0428	0.3428	1.08E-03	0.1128	9.10E-04	0.1137	0.0299	8.50E-04	0.0308		108.1903	108.1903	3.1700e-003		108.2695

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	0.3653					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7861	7.7526	7.1619	0.0148		0.3617	0.3617		0.3328	0.3328		1,428.8622	1,428.8622	0.4621		1,440.4153
Total	1.1514	7.7526	7.1619	0.0148		0.3617	0.3617		0.3328	0.3328		1,428.8622	1,428.8622	0.4621		1,440.4153

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.8000e-004	0.0201	5.4800e-003	7.0000e-005	1.5700e-003	6.0000e-005	1.6400e-003	4.3000e-004	6.0000e-005	4.9000e-004		7.1000	7.1000	4.8000e-004		7.1119
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	0.0224	0.0147	0.1696	5.2000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		51.7285	51.7285	1.4200e-003		51.7641
Total	0.0231	0.0348	0.1751	5.9000e-004	0.0575	5.0000e-004	0.0580	0.0153	4.6000e-004	0.0157		58.8285	58.8285	1.9000e-003		58.8760

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3653					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7861	7.7526	7.1619	0.0148		0.3617	0.3617		0.3328	0.3328	0.0000	1,428.8622	1,428.8622	0.4621		1,440.4153
Total	1.1514	7.7526	7.1619	0.0148		0.3617	0.3617		0.3328	0.3328	0.0000	1,428.8622	1,428.8622	0.4621		1,440.4153

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.8000e-004	0.0201	5.4800e-003	7.0000e-005	1.5700e-003	6.0000e-005	1.6400e-003	4.3000e-004	6.0000e-005	4.9000e-004		7.1000	7.1000	4.8000e-004		7.1119
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	0.0224	0.0147	0.1696	5.20E-04	0.0559	4.40E-04	0.0563	0.0148	4.00E-04	0.0152		51.7285	51.7285	1.4200e-003		51.7641
Total	0.0231	0.0348	0.1751	5.90E-04	0.0575	5.00E-04	0.058	0.0153	4.60E-04	0.0157		58.8285	58.8285	1.9000e-003		58.8760

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9079	4.5889	11.3284	0.0407	3.4260	0.0348	3.4607	0.9168	0.0325	0.9492		4,149.2259	4,149.2259	0.2214		4,154.7595
Unmitigated	0.9079	4.5889	11.3284	0.0407	3.4260	0.0348	3.4607	0.9168	0.0325	0.9492		4,149.2259	4,149.2259	0.2214		4,154.7595

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	45.81	551.46	405.78	487,663	487,663
Other Asphalt Surfaces	0.70	8.43	6.20	7,454	7,454
Total	46.51	559.89	411.98	495,117	495,117

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- NW	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Other Asphalt Surfaces	0.000000	0.000000	0.870000	0.000000	0.000000	0.000000	0.000000	0.130000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3962	4.0000e-005	4.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0101	0.0101	3.0000e-005		0.0107
Unmitigated	0.3962	4.0000e-005	4.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0101	0.0101	3.0000e-005		0.0107

6.2 Area by SubCategory

Unmitigated

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

Architectural Coating	5.0000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0101	0.0101	3.0000e-005		0.0107
Total	0.3962	4.0000e-005	4.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0101	0.0101	3.0000e-005		0.0107

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	5.0000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0101	0.0101	3.0000e-005		0.0107
Total	0.3962	4.0000e-005	4.7100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0101	0.0101	3.0000e-005		0.0107

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 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Common Elements Typical Project - Important CalEEMod Variables for Construction and Operation

Note: Values represent a combination of assumptions from Public Works engineers, CalEEMod defaults, and adjustments with explanations in footnotes.

1. Construction

1a. Land Uses to be Constructed

Land Use	Unit Amount	Size Metric
Café	8,000	sf
Performing arts space	38,046	sf
City park	3	acres

Note: City park land use type represents the maximum footprint of the project site.

Note: Performing arts space is only 4,000 sf. However, CalEEMod uses the square footage of all paved surfaces to determine VOC off-gassing so added other paved area sf (see table 1f).

1b. Construction Schedule

Phases	Start Date	End Date	Days/Week	Work Days
Demolition	1/1/2021	1/28/2021	5	20
Site Preparation	1/29/2021	3/12/2021	5	31
Grading	3/13/2021	4/23/2021	5	30
Building Construction	4/24/2021	9/17/2021	5	105
Paving	9/18/2021	10/8/2021	5	15
Architectural Coating	10/9/2021	10/29/2021	5	15

1c. Construction Equipment

Phases	Equipment Type	Number	Horsepower	Hours/day	VMT/day
Demolition	Excavator	1	300	8	n/a
	Water truck	1	402	8	40
	Dump Truck	2	450	8	80
	Backhoe	2	250	8	n/a
	Front-end Loader	2	97	8	n/a
	Utility trucks	2	402	8	80
	Backhoe	2	97	8	n/a
Site Preparation	Haul trucks/dump trucks	8	402	8	320
	Water truck	1	402	8	40
	Backhoe	2	97	8	n/a
	Front-end Loader	2	97	8	n/a
	Excavator	1	158	8	n/a
	Water truck	1	402	8	40

Grading	Dump trucks	1	402	8	40
	Backhoe	2	97	8	n/a
	Loaders	1	97	8	n/a
	Grader	2	187	8	n/a
Building Construction	Flatbed truck	1	402	8	40
	Water truck	1	402	8	40
	Backhoe	1	97	8	n/a
	Small crane/man lifts	2	231	8	n/a
	Utility trucks	3	402	8	120
Paving	Paving machine	1	132	8	n/a
	Water truck	1	402	8	40
	Backhoe	1	97	8	n/a
	Skip loaders	2	97	8	n/a
	Super-10's	6	402	8	240
Architectural Coating	Water truck	1	402	8	40
	Utility trucks	3	n/a	8	120

Notes: all equipment assumed to be diesel-powered.

Trucks (water, haul/dump, utility, flatbed, super-10) accounted for in CalEEMod in construction vehicle trips, assuming 5 mph idling onsite at 8 hours a day yields 40 miles per day per vehicle.

1d. Material and Debris Movement

Phases	Demolition (tons)	Material Imported (CY)	Material Exported (CY)	Acres Graded
Demolition	5,056	0	0	0
Grading	0	2,000	5,000	3

1e. Trips and VMT

Phases	Trips/day					Miles/trip		
	Worker	Vendor	Haul Default	Haul Onsite	Haul Adjusted	Worker	Vendor	Haul
Demolition	20	0	500	7	507	14.7	6.9	30
Site Preparation	20	0	0	12	12	14.7	6.9	30
Grading	20	0	875	3	878	14.7	6.9	30
Building Construction	20	23	0	7	7	14.7	6.9	30
Paving	20	0	0	10	10	14.7	6.9	30
Architectural Coating	20	0	0	6	6	14.7	6.9	30

Note: trucks (water, haul/dump, utility, flatbed, super-10) accounted for in CalEEMod in construction vehicle trips, assuming 5 mph idling onsite at 8 hours a day yields 40 miles per day per vehicle. Trips added in based on 30-mile haul trip length (see haul onsite column).

1f. Asphalt Paving

Phases	Acres Paved
Paving	2,283

Note: Asphalt paving input to determine the VOC emissions off-gassed. Asphalt surfaces consist of 0.25 miles of road paved (assumed 12-ft width) (50% asphalt) + 1.5 acres of miscellaneous area (40% asphalt) paved + 4,000 feet of performing arts space. Total asphalt paving is 38,056 sf or 0.9 acres.

2. Operation

Note: Operation assumed to begin immediately following completion of construction in 2022.

2a. Maintenance Vehicle Trips

Equipment Type	Fuel	Number	Avg Hours/day	Speed (mph)	VMT/day	Annual VMT
4x4 truck	Gasoline	1	16.97	5	84.85	30,971

Notes: maintenance vehicles would be used for trash/litter control, repairs and maintenance, restroom facilities cleaning, inspection of buildings, and landscaping.

Average Hours/day of maintenance vehicle activity based on reported frequency of various maintenance activities.

Hours of maintenance vehicle activity translated into VMT/day that was input into table 2b below.

2b. Total Vehicle Trips

Land Use	Average Daily Trip Rate			Annual VMT
	Weekday	Saturday	Sunday	
Café	5,728	5,568	4,000	9,885,194
Performing arts space	3.04	34.63	25.49	30,971
City park	5.67	68.25	50.22	60,354
Total	5,736.71	5,670.88	4,075.71	9,976,519

Notes: CalEEMod default trip rate for the performing arts space is 0. Adjusted so that the annual VMT matches that calculated in Table 2a for the maintenance vehicle trips. Fleet mix also adjusted to 100% LDT2 (light duty truck).

2c. Energy Use

Land Use	Natural Gas (kBtu/yr)	Electricity (kWh/yr)
Café	2,074,560	291,840
Performing arts space	0	0
City park	0	0
Total	2,074,560	291,840

2d. Water Consumption

Land Use	Indoor (Mgal/yr)	Outdoor (Mgal/yr)
Café	2.43	0.15
Performing arts space	0.00	0.00

City park	0.00	3.57
Total	2.43	3.73

2e. Waste Generation

Land Use	Waste Disposed (tons/yr)
Café	92.15
Performing arts space	0.00
City park	0.26
Total	92

Multiuse Trails & Access Gateways Typical Project - Important CalEEMod Variables for Construction and Operation

Note: Values represent a combination of assumptions from Public Works engineers, CalEEMod defaults, and adjustments with explanations in footnotes.

1. Construction

1a. Land Uses to be Constructed

Land Use	Unit Amount	Size Metric
City Park	24.24	acres
Other Asphalt Surfaces	21.80	acres

Note: City park land use type represents the multi-use trail (5-miles by 40-foot max width = ~24 acres).

Note: CalEEMod uses the square footage of all paved surfaces to determine VOC off-gassing so added Other Asphalt Surfaces based on conservative assumption that 90% the project footprint would be paved with asphalt.

1b. Construction Schedule

Phases	Start Date	End Date	Days/Week	Work Days
Demolition	1/1/2021	3/12/2021	5	51
Site Preparation	3/13/2021	7/30/2021	5	100
Grading	7/31/2021	12/17/2021	5	100
Building Construction	12/18/2021	5/6/2022	5	100
Paving	5/7/2022	7/15/2022	5	50
Landscaping	7/16/2022	9/23/2022	5	50

1c. Construction Equipment

Phases	Equipment Type	Number	Horsepower	Hours/day	VMT/day
Demolition	Excavator	1	300	8	n/a
	Dump Truck	2	450	8	80
	Backhoe	2	250	8	n/a
	Hydraulic Impact Hammer	1	75	8	n/a
	Concrete Saw	1	70	8	n/a
	Hoe Ram	1	N/A	8	n/a
	Hoe for Hoe Ram	1	97	8	n/a
Site Preparation	Skip Loader	1	100	8	n/a
	Backhoe	1	250	8	n/a
	Water Truck	1	402	8	40
	Wheel Loader	1	200	8	n/a
Grading	Motor Grader	1	150	8	n/a
	Skip Loader	1	100	8	n/a
	Water Truck	1	402	8	40
	Vibratory Roller	1	75	8	n/a
	Backhoe	1	250	8	n/a

Building Construction	Telescopic Lift	1	75	8	n/a
	Fork Lift	1	100	8	n/a
Paving	Paving Machine	1	100	8	n/a
	Oil Truck	1	300	8	40
	Vibratory Roller	1	75	8	n/a
	Skip Loader	1	100	8	n/a
	Skid Steer	1	25	8	n/a
Landscaping	Wheel Loader	1	200	8	n/a
	Skip Loader	1	100	8	n/a
	Truck for mounted crane	1	402	8	40
	Water Truck	1	402	8	40
	Truck mounted crane	1	150	8	n/a

Notes: all equipment assumed to be diesel-powered.

Trucks (water, dump, oil, for mounted crane) accounted for in CalEEMod in construction vehicle trips, assuming 5 mph idling onsite at 8 hours a day yields 40 miles per day per vehicle.

1d. Material and Debris Movement

Phases	Demolition (tons)	Material Transfer (CY)	Acres Graded
Demolition	12,640	0	0
Grading	0	110,000	24.24

Notes: grading would involve 95,000 CY of material export/import and 15,000 CY of demolished material transfer.

1e. Trips and VMT

Phases	Trips/day					Miles/trip		
	Worker	Vendor	Haul Default	Haul Onsite	Haul Adjusted	Worker	Vendor	Haul
Demolition	5	0	1250	3	1,253	14.7	6.9	30
Site Preparation	5	0	0	2	2	14.7	6.9	30
Grading	5	0	13750	2	13752	14.7	6.9	30
Building Construction	10	173	0	0	0	14.7	6.9	30
Paving	105	0	0	2	2	14.7	6.9	30
Landscaping	20	0	0	3	3	14.7	6.9	30

Note: trucks (water, dump, oil, for mounted crane) accounted for in CalEEMod in construction vehicle trips, assuming 5 mph idling onsite at 8 hours a day yields 40 miles per day per vehicle. Trips added in based on 30-mile haul trip length (see haul onsite column).

1f. Asphalt Paving

Phases	Acres Paved
Paving	21.8

Note: CalEEMod uses the square footage of all paved surfaces to determine VOC off-gassing so added Other Asphalt Surfaces based on conservative assumption that 90% the project footprint would be paved with asphalt.

1g. Parking Area Coating

Phases	Coating (sf)
Landscaping	7,882

Note: CalEEMod takes SF of all paved surfaces and determines coating SF based on assumption that 6% of the project footprint paved surface area (21.8 acres) would be coated. Adjusted percentage assuming that 0.83% of surface area would be coated. Percentage calculated based on 40 foot width of trail and average 4-inch line painted down the entire length of the middle of the trail (0.33 ft/40 ft).

2. Operation

Note: Operation assumed to begin immediately following completion of construction in 2022.

2a. Maintenance Vehicle Trips

Equipment Type	Fuel	Number	Avg Hours/day	Speed (mph)	VMT/day	Annual VMT	% of VMT
4x4 truck	Gasoline	1	3.559	5	17.8	6,494	87%
Dump truck	Diesel	1	0.526	5	2.6	960	13%
Total					20.4	7,454	

Notes: Maintenance vehicles would be used for trash/litter control, repairs and maintenance, inspection of infrastructure, and landscaping.

Average Hours/day of maintenance vehicle activity based on reported frequency of various maintenance activities.

Hours of maintenance vehicle activity translated into VMT/day that was input into table 2b below.

2b. Total Vehicle Trips

Land Use	Average Daily Trip Rate			Annual VMT
	Weekday	Saturday	Sunday	
City Park	45.81	551.46	405.78	487,663
Other Asphalt Surfaces	0.70	8.43	6.20	7,454
Total	46.51	559.89	411.98	495,117

Notes: CalEEMod default Other Asphalt Surfaces trip rates were adjusted from 0 to account for maintenance worker vehicle trips. Fleet mix also adjusted to 87% LDT2 (light duty truck) and 13% HDT (heavy duty truck) based on 2a VMT breakdown.

2b. Energy Use

Land Use	Energy Use	
	Natural Gas (kBtu/yr)	Electricity (kWh/yr)
City Park	0	0
Other Asphalt Surfaces	0	0
Total	0	0

2c. Water Consumption

Land Use	Indoor (Mgal/yr)	Outdoor (Mgal/yr)
City Park	0.00	28.88
Other Asphalt Surfaces	0.00	0.00
Total	0.00	28.88

2d. Waste Generation

Land Use	Waste Disposed (tons/yr)
City Park	2.08
Other Asphalt Surfaces	0.00
Total	2