

**APPENDIX E**

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**Greenhouse Gas Emission Output Files**

Crenshaw Crossing - Los Angeles-South Coast County, Annual

**Crenshaw Crossing**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	401.00	Dwelling Unit	3.40	339,116.00	1147
Regional Shopping Center	41.00	1000sqft	0.00	40,996.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Shopping Center includes restaurant, retail & supermarket uses on the ground floor for both Site A & B  
 Acreage includes both Site A and B

Construction Phase - Based on construction schedule to take place Start of 2nd Quarter 2021 to 2nd Quarter 2023

Off-road Equipment -

Off-road Equipment - Includes equipment used for foundation concrete pours

Off-road Equipment - Construction equipment to be used

Off-road Equipment - Includes equipment sued for foundation concrete pours

Off-road Equipment - 20 pieces of construction equipment during paving

Trips and VMT - Landfill location to Chiquita Canyon Landfill

Demolition - Includes building and pavement debris

Grading -

Vehicle Trips - Based on net daily trip value of 5,192

Woodstoves - No woodstoves, no fireplace

Construction Off-road Equipment Mitigation - Based on average breakdown of typical fleet per stage:

Tier 1: 40%, Tier 2: 25%, Tier 3: 25%, Tier 4: 10%

SCAQMD Fugitive Dust Rule 403

Mobile Land Use Mitigation - Located at Crenshaw/Expo line

Area Mitigation -

Energy Mitigation -

Water Mitigation - Low Flow fixtures meeting WaterSense Guidelines, achieving 30% reduction

Waste Mitigation - LEED and CALGreen 75% diversion rate

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 1
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 1
tblConstEquipMitigation	Tier	No Change	Tier 1
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 1
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	89.00

tblConstructionPhase	NumDays	230.00	429.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	75.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	340.85	0.00
tblFireplaces	NumberNoFireplace	40.10	0.00
tblFireplaces	NumberWood	20.05	0.00
tblGrading	MaterialExported	0.00	34,000.00
tblGrading	MaterialImported	0.00	6,500.00
tblLandUse	LandUseSquareFeet	401,000.00	339,116.00
tblLandUse	LandUseSquareFeet	41,000.00	40,996.00
tblLandUse	LotAcreage	10.55	3.40
tblLandUse	LotAcreage	0.94	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripLength	20.00	86.20

tblTripsAndVMT	HaulingTripLength	20.00	86.20
tblVehicleTrips	ST_TR	6.39	3.02
tblVehicleTrips	ST_TR	49.97	94.10
tblVehicleTrips	SU_TR	5.86	3.02
tblVehicleTrips	SU_TR	25.24	94.10
tblVehicleTrips	WD_TR	6.65	3.02
tblVehicleTrips	WD_TR	42.70	94.10
tblWaterMitigation	PercentReductionInFlowKitchenFaucet	18	30
tblWaterMitigation	PercentReductionInFlowShower	20	30
tblWaterMitigation	PercentReductionInFlowToilet	20	30
tblWoodstoves	NumberCatalytic	20.05	0.00
tblWoodstoves	NumberNoncatalytic	20.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.6899	7.2160	5.7594	0.0192	0.6734	0.2446	0.9180	0.1549	0.2341	0.3890	0.0000	1,767.4459	1,767.4459	0.2022	0.0000	1,772.5013
2022	1.6200	6.2715	7.3993	0.0172	0.4892	0.2892	0.7784	0.1309	0.2786	0.4095	0.0000	1,510.4881	1,510.4881	0.1970	0.0000	1,515.4129
2023	0.6967	1.6585	2.1204	4.2800e-003	0.0933	0.0834	0.1767	0.0249	0.0794	0.1043	0.0000	373.0636	373.0636	0.0601	0.0000	374.5654
<b>Maximum</b>	<b>1.6200</b>	<b>7.2160</b>	<b>7.3993</b>	<b>0.0192</b>	<b>0.6734</b>	<b>0.2892</b>	<b>0.9180</b>	<b>0.1549</b>	<b>0.2786</b>	<b>0.4095</b>	<b>0.0000</b>	<b>1,767.4459</b>	<b>1,767.4459</b>	<b>0.2022</b>	<b>0.0000</b>	<b>1,772.5013</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.7956	8.8000	7.5935	0.0192	0.5213	0.3533	0.8746	0.1325	0.3527	0.4852	0.0000	1,767.4451	1,767.4451	0.2022	0.0000	1,772.5005
2022	1.8899	10.0730	10.0132	0.0172	0.4892	0.5306	1.0198	0.1309	0.5302	0.6611	0.0000	1,510.4870	1,510.4870	0.1970	0.0000	1,515.4117
2023	0.7874	2.6939	2.8652	4.2800e-003	0.0933	0.1617	0.2550	0.0249	0.1616	0.1866	0.0000	373.0632	373.0632	0.0601	0.0000	374.5651
<b>Maximum</b>	<b>1.8899</b>	<b>10.0730</b>	<b>10.0132</b>	<b>0.0192</b>	<b>0.5213</b>	<b>0.5306</b>	<b>1.0198</b>	<b>0.1325</b>	<b>0.5302</b>	<b>0.6611</b>	<b>0.0000</b>	<b>1,767.4451</b>	<b>1,767.4451</b>	<b>0.2022</b>	<b>0.0000</b>	<b>1,772.5005</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>-15.50</b>	<b>-42.39</b>	<b>-33.99</b>	<b>0.00</b>	<b>12.10</b>	<b>-69.40</b>	<b>-14.75</b>	<b>7.20</b>	<b>-76.44</b>	<b>-47.65</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2021	5-31-2021	2.7116	2.8992
2	6-1-2021	8-31-2021	2.4143	2.8000
3	9-1-2021	11-30-2021	1.9593	2.7807
4	12-1-2021	2-28-2022	1.8137	2.7436
5	3-1-2022	5-31-2022	1.7812	2.7948
6	6-1-2022	8-31-2022	1.7787	2.7924
7	9-1-2022	11-30-2022	2.2599	3.2989
8	12-1-2022	2-28-2023	2.3859	3.4253
9	3-1-2023	5-31-2023	0.8797	1.3197
10	6-1-2023	8-31-2023	0.0096	0.0143
		<b>Highest</b>	<b>2.7116</b>	<b>3.4253</b>

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6230	0.0476	4.1342	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	6.7561	6.7561	6.4800e-003	0.0000	6.9182
Energy	0.0203	0.1736	0.0752	1.1100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	1,393.5187	1,393.5187	0.0320	9.5100e-003	1,397.1531
Mobile	1.1860	5.4135	14.5123	0.0552	4.7373	0.0426	4.7799	1.2697	0.0396	1.3093	0.0000	5,109.6759	5,109.6759	0.2505	0.0000	5,115.9386
Waste						0.0000	0.0000		0.0000	0.0000	46.1825	0.0000	46.1825	2.7293	0.0000	114.4151
Water						0.0000	0.0000		0.0000	0.0000	9.2523	324.9403	334.1927	0.9580	0.0240	365.3019
<b>Total</b>	<b>2.8292</b>	<b>5.6347</b>	<b>18.7217</b>	<b>0.0565</b>	<b>4.7373</b>	<b>0.0795</b>	<b>4.8168</b>	<b>1.2697</b>	<b>0.0765</b>	<b>1.3462</b>	<b>55.4348</b>	<b>6,834.8911</b>	<b>6,890.3259</b>	<b>3.9763</b>	<b>0.0335</b>	<b>6,999.7269</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5646	0.0378	3.1419	1.4000e-004		0.0171	0.0171		0.0171	0.0171	0.0000	4.7274	4.7274	3.4000e-003	0.0000	4.8123
Energy	0.0183	0.1569	0.0680	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	1,325.2420	1,325.2420	0.0305	8.9200e-003	1,328.6616
Mobile	1.1450	5.1923	13.5080	0.0507	4.3223	0.0393	4.3616	1.1585	0.0365	1.1950	0.0000	4,695.1882	4,695.1882	0.2326	0.0000	4,701.0038
Waste						0.0000	0.0000		0.0000	0.0000	11.5456	0.0000	11.5456	0.6823	0.0000	28.6038
Water						0.0000	0.0000		0.0000	0.0000	5.3545	207.6155	212.9700	0.5549	0.0140	231.0136
<b>Total</b>	<b>2.7279</b>	<b>5.3870</b>	<b>16.7178</b>	<b>0.0519</b>	<b>4.3223</b>	<b>0.0691</b>	<b>4.3913</b>	<b>1.1585</b>	<b>0.0663</b>	<b>1.2248</b>	<b>16.9001</b>	<b>6,232.7732</b>	<b>6,249.6733</b>	<b>1.5037</b>	<b>0.0229</b>	<b>6,294.0950</b>



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.58	4.40	10.70	8.28	8.76	13.15	8.83	8.76	13.38	9.02	69.51	8.81	9.30	62.18	31.66	10.08

### 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	3/1/2021	4/30/2021	5	45	
2	Grading	Grading	5/1/2021	6/25/2021	5	40	
3	Building Construction	Building Construction	6/26/2021	2/16/2023	5	429	
4	Architectural Coating	Architectural Coating	10/16/2022	2/16/2023	5	89	
5	Paving	Paving	2/17/2023	6/1/2023	5	75	

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

**Acres of Grading (Grading Phase): 40**

**Acres of Paving: 0**

**Residential Indoor: 686,710; Residential Outdoor: 228,903; Non-Residential Indoor: 61,494; Non-Residential Outdoor: 20,498; Striped**

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Bore/Drill Rigs	2	6.00	221	0.50
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	1	6.00	84	0.74
Demolition	Other Construction Equipment	2	6.00	172	0.42
Demolition	Rubber Tired Loaders	1	6.00	203	0.36

Grading	Dumpers/Tenders	2	6.00	16	0.38
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Plate Compactors	2	6.00	8	0.43
Grading	Skid Steer Loaders	2	6.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	2	6.00	78	0.50
Building Construction	Air Compressors	8	7.00	78	0.48
Building Construction	Bore/Drill Rigs	2	6.00	221	0.50
Building Construction	Cement and Mortar Mixers	12	6.00	9	0.56
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Other General Industrial Equipment	2	6.00	88	0.34
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Air Compressors	2	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Concrete/Industrial Saws	2	6.00	81	0.73
Paving	Forklifts	2	6.00	89	0.20
Paving	Other General Industrial Equipment	2	6.00	88	0.34
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Surfacing Equipment	1	6.00	263	0.30
Paving	Sweepers/Scrubbers	1	6.00	64	0.46
Paving	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Trenchers	2	6.00	78	0.50

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
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Demolition	11	28.00	0.00	1,829.00	14.70	6.90	86.20	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	3,362.00	14.70	6.90	86.20	LD_Mix	HDT_Mix	HHDT
Building Construction	34	302.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	20	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1979	0.0000	0.1979	0.0300	0.0000	0.0300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.6585	0.6627	1.3500e-003		0.0323	0.0323		0.0311	0.0311	0.0000	117.2907	117.2907	0.0244	0.0000	117.9000
<b>Total</b>	<b>0.0724</b>	<b>0.6585</b>	<b>0.6627</b>	<b>1.3500e-003</b>	<b>0.1979</b>	<b>0.0323</b>	<b>0.2302</b>	<b>0.0300</b>	<b>0.0311</b>	<b>0.0611</b>	<b>0.0000</b>	<b>117.2907</b>	<b>117.2907</b>	<b>0.0244</b>	<b>0.0000</b>	<b>117.9000</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	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	2.7100e-003	2.1100e-003	0.0238	7.0000e-005	6.9000e-003	6.0000e-005	6.9600e-003	1.8300e-003	5.0000e-005	1.8900e-003	0.0000	6.2302	6.2302	1.8000e-004	0.0000	6.2348
<b>Total</b>	<b>0.0309</b>	<b>0.8155</b>	<b>0.2376</b>	<b>2.8200e-003</b>	<b>0.0746</b>	<b>3.2000e-003</b>	<b>0.0778</b>	<b>0.0204</b>	<b>3.0600e-003</b>	<b>0.0235</b>	<b>0.0000</b>	<b>276.9883</b>	<b>276.9883</b>	<b>0.0165</b>	<b>0.0000</b>	<b>277.4012</b>

### 3.3 Grading - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0230	0.0000	0.0230	2.5600e-003	0.0000	2.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0611	0.6420	0.5566	1.0000e-003		0.0300	0.0300		0.0277	0.0277	0.0000	87.4480	87.4480	0.0277	0.0000	88.1410
<b>Total</b>	<b>0.0611</b>	<b>0.6420</b>	<b>0.5566</b>	<b>1.0000e-003</b>	<b>0.0230</b>	<b>0.0300</b>	<b>0.0531</b>	<b>2.5600e-003</b>	<b>0.0277</b>	<b>0.0303</b>	<b>0.0000</b>	<b>87.4480</b>	<b>87.4480</b>	<b>0.0277</b>	<b>0.0000</b>	<b>88.1410</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	0.0517	1.4952	0.3930	5.0500e-003	0.1244	5.7700e-003	0.1302	0.0342	5.5200e-003	0.0397	0.0000	497.6976	497.6976	0.0300	0.0000	498.4482
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	3.4400e-003	2.6800e-003	0.0303	9.0000e-005	8.7700e-003	7.0000e-005	8.8400e-003	2.3300e-003	7.0000e-005	2.3900e-003	0.0000	7.9113	7.9113	2.3000e-004	0.0000	7.9172
<b>Total</b>	<b>0.0552</b>	<b>1.4978</b>	<b>0.4233</b>	<b>5.1400e-003</b>	<b>0.1332</b>	<b>5.8400e-003</b>	<b>0.1390</b>	<b>0.0365</b>	<b>5.5900e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>505.6089</b>	<b>505.6089</b>	<b>0.0303</b>	<b>0.0000</b>	<b>506.3653</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive 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					7.1800e-003	0.0000	7.1800e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1969	0.6496	1.0000e-003		0.0124	0.0124		0.0124	0.0124	0.0000	87.4479	87.4479	0.0277	0.0000	88.1409
<b>Total</b>	<b>0.0154</b>	<b>0.1969</b>	<b>0.6496</b>	<b>1.0000e-003</b>	<b>7.1800e-003</b>	<b>0.0124</b>	<b>0.0196</b>	<b>8.0000e-004</b>	<b>0.0124</b>	<b>0.0132</b>	<b>0.0000</b>	<b>87.4479</b>	<b>87.4479</b>	<b>0.0277</b>	<b>0.0000</b>	<b>88.1409</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	0.0517	1.4952	0.3930	5.0500e-003	0.1244	5.7700e-003	0.1302	0.0342	5.5200e-003	0.0397	0.0000	497.6976	497.6976	0.0300	0.0000	498.4482
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	3.4400e-003	2.6800e-003	0.0303	9.0000e-005	8.7700e-003	7.0000e-005	8.8400e-003	2.3300e-003	7.0000e-005	2.3900e-003	0.0000	7.9113	7.9113	2.3000e-004	0.0000	7.9172
<b>Total</b>	<b>0.0552</b>	<b>1.4978</b>	<b>0.4233</b>	<b>5.1400e-003</b>	<b>0.1332</b>	<b>5.8400e-003</b>	<b>0.1390</b>	<b>0.0365</b>	<b>5.5900e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>505.6089</b>	<b>505.6089</b>	<b>0.0303</b>	<b>0.0000</b>	<b>506.3653</b>

## 3.4 Building Construction - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Off-Road	0.3722	3.2009	3.0181	5.8100e-003		0.1707	0.1707		0.1643	0.1643	0.0000	495.3267	495.3267	0.0923	0.0000
<b>Total</b>	<b>0.3722</b>	<b>3.2009</b>	<b>3.0181</b>	<b>5.8100e-003</b>		<b>0.1707</b>	<b>0.1707</b>		<b>0.1643</b>	<b>0.1643</b>	<b>0.0000</b>	<b>495.3267</b>	<b>495.3267</b>	<b>0.0923</b>	<b>0.0000</b>	<b>497.6346</b>

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0105	0.3331	0.0903	8.6000e-004	0.0213	6.8000e-004	0.0219	6.1400e-003	6.5000e-004	6.7900e-003	0.0000	83.1926	83.1926	5.1000e-003	0.0000	83.3202
Worker	0.0877	0.0683	0.7709	2.2300e-003	0.2234	1.8400e-003	0.2252	0.0593	1.7000e-003	0.0610	0.0000	201.5907	201.5907	5.9300e-003	0.0000	201.7390
<b>Total</b>	<b>0.0982</b>	<b>0.4014</b>	<b>0.8612</b>	<b>3.0900e-003</b>	<b>0.2446</b>	<b>2.5200e-003</b>	<b>0.2472</b>	<b>0.0655</b>	<b>2.3500e-003</b>	<b>0.0678</b>	<b>0.0000</b>	<b>284.7833</b>	<b>284.7833</b>	<b>0.0110</b>	<b>0.0000</b>	<b>285.0592</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.4759	4.8033	4.3248	5.8100e-003		0.2691	0.2691		0.2691	0.2691	0.0000	495.3261	495.3261	0.0923	0.0000	497.6340
<b>Total</b>	<b>0.4759</b>	<b>4.8033</b>	<b>4.3248</b>	<b>5.8100e-003</b>		<b>0.2691</b>	<b>0.2691</b>		<b>0.2691</b>	<b>0.2691</b>	<b>0.0000</b>	<b>495.3261</b>	<b>495.3261</b>	<b>0.0923</b>	<b>0.0000</b>	<b>497.6340</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0105	0.3331	0.0903	8.6000e-004	0.0213	6.8000e-004	0.0219	6.1400e-003	6.5000e-004	6.7900e-003	0.0000	83.1926	83.1926	5.1000e-003	0.0000	83.3202
Worker	0.0877	0.0683	0.7709	2.2300e-003	0.2234	1.8400e-003	0.2252	0.0593	1.7000e-003	0.0610	0.0000	201.5907	201.5907	5.9300e-003	0.0000	201.7390
<b>Total</b>	<b>0.0982</b>	<b>0.4014</b>	<b>0.8612</b>	<b>3.0900e-003</b>	<b>0.2446</b>	<b>2.5200e-003</b>	<b>0.2472</b>	<b>0.0655</b>	<b>2.3500e-003</b>	<b>0.0678</b>	<b>0.0000</b>	<b>284.7833</b>	<b>284.7833</b>	<b>0.0110</b>	<b>0.0000</b>	<b>285.0592</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.6573	5.4995	5.7595	0.0112		0.2822	0.2822		0.2720	0.2720	0.0000	954.3065	954.3065	0.1763	0.0000	958.7139
<b>Total</b>	<b>0.6573</b>	<b>5.4995</b>	<b>5.7595</b>	<b>0.0112</b>		<b>0.2822</b>	<b>0.2822</b>		<b>0.2720</b>	<b>0.2720</b>	<b>0.0000</b>	<b>954.3065</b>	<b>954.3065</b>	<b>0.1763</b>	<b>0.0000</b>	<b>958.7139</b>

**Unmitigated Construction Off-Site**



	ROG	NOx	CO	SO2	Fugitive 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	0.0189	0.6095	0.1646	1.6400e-003	0.0409	1.1400e-003	0.0421	0.0118	1.0900e-003	0.0129	0.0000	158.8155	158.8155	9.4900e-003	0.0000	159.0526
Worker	0.1584	0.1188	1.3679	4.1400e-003	0.4302	3.4400e-003	0.4337	0.1143	3.1600e-003	0.1174	0.0000	374.6012	374.6012	0.0103	0.0000	374.8591
<b>Total</b>	<b>0.1774</b>	<b>0.7282</b>	<b>1.5325</b>	<b>5.7800e-003</b>	<b>0.4712</b>	<b>4.5800e-003</b>	<b>0.4757</b>	<b>0.1261</b>	<b>4.2500e-003</b>	<b>0.1303</b>	<b>0.0000</b>	<b>533.4167</b>	<b>533.4167</b>	<b>0.0198</b>	<b>0.0000</b>	<b>533.9117</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.9166	9.2507	8.3293	0.0112		0.5183	0.5183		0.5183	0.5183	0.0000	954.3053	954.3053	0.1763	0.0000	958.7128
<b>Total</b>	<b>0.9166</b>	<b>9.2507</b>	<b>8.3293</b>	<b>0.0112</b>		<b>0.5183</b>	<b>0.5183</b>		<b>0.5183</b>	<b>0.5183</b>	<b>0.0000</b>	<b>954.3053</b>	<b>954.3053</b>	<b>0.1763</b>	<b>0.0000</b>	<b>958.7128</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0189	0.6095	0.1646	1.6400e-003	0.0409	1.1400e-003	0.0421	0.0118	1.0900e-003	0.0129	0.0000	158.8155	158.8155	9.4900e-003	0.0000	159.0526
Worker	0.1584	0.1188	1.3679	4.1400e-003	0.4302	3.4400e-003	0.4337	0.1143	3.1600e-003	0.1174	0.0000	374.6012	374.6012	0.0103	0.0000	374.8591
<b>Total</b>	<b>0.1774</b>	<b>0.7282</b>	<b>1.5325</b>	<b>5.7800e-003</b>	<b>0.4712</b>	<b>4.5800e-003</b>	<b>0.4757</b>	<b>0.1261</b>	<b>4.2500e-003</b>	<b>0.1303</b>	<b>0.0000</b>	<b>533.4167</b>	<b>533.4167</b>	<b>0.0198</b>	<b>0.0000</b>	<b>533.9117</b>

### 3.4 Building Construction - 2023

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0807	0.6647	0.7495	1.4700e-003		0.0324	0.0324		0.0313	0.0313	0.0000	124.8441	124.8441	0.0228	0.0000	125.4138
<b>Total</b>	<b>0.0807</b>	<b>0.6647</b>	<b>0.7495</b>	<b>1.4700e-003</b>		<b>0.0324</b>	<b>0.0324</b>		<b>0.0313</b>	<b>0.0313</b>	<b>0.0000</b>	<b>124.8441</b>	<b>124.8441</b>	<b>0.0228</b>	<b>0.0000</b>	<b>125.4138</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	1.8400e-003	0.0602	0.0193	2.1000e-004	5.3500e-003	7.0000e-005	5.4200e-003	1.5500e-003	7.0000e-005	1.6100e-003	0.0000	20.1180	20.1180	1.1000e-003	0.0000	20.1454
Worker	0.0195	0.0141	0.1645	5.2000e-004	0.0563	4.4000e-004	0.0567	0.0149	4.0000e-004	0.0153	0.0000	47.1938	47.1938	1.2100e-003	0.0000	47.2241

<b>Total</b>	<b>0.0213</b>	<b>0.0743</b>	<b>0.1838</b>	<b>7.3000e-004</b>	<b>0.0616</b>	<b>5.1000e-004</b>	<b>0.0621</b>	<b>0.0165</b>	<b>4.7000e-004</b>	<b>0.0170</b>	<b>0.0000</b>	<b>67.3118</b>	<b>67.3118</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>67.3695</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.1199	1.2097	1.0892	1.4700e-003		0.0678	0.0678		0.0678	0.0678	0.0000	124.8439	124.8439	0.0228	0.0000	125.4136
<b>Total</b>	<b>0.1199</b>	<b>1.2097</b>	<b>1.0892</b>	<b>1.4700e-003</b>		<b>0.0678</b>	<b>0.0678</b>		<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>124.8439</b>	<b>124.8439</b>	<b>0.0228</b>	<b>0.0000</b>	<b>125.4136</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	1.8400e-003	0.0602	0.0193	2.1000e-004	5.3500e-003	7.0000e-005	5.4200e-003	1.5500e-003	7.0000e-005	1.6100e-003	0.0000	20.1180	20.1180	1.1000e-003	0.0000	20.1454
Worker	0.0195	0.0141	0.1645	5.2000e-004	0.0563	4.4000e-004	0.0567	0.0149	4.0000e-004	0.0153	0.0000	47.1938	47.1938	1.2100e-003	0.0000	47.2241
<b>Total</b>	<b>0.0213</b>	<b>0.0743</b>	<b>0.1838</b>	<b>7.3000e-004</b>	<b>0.0616</b>	<b>5.1000e-004</b>	<b>0.0621</b>	<b>0.0165</b>	<b>4.7000e-004</b>	<b>0.0170</b>	<b>0.0000</b>	<b>67.3118</b>	<b>67.3118</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>67.3695</b>

**3.5 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	0.7731					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6200e-003	0.0387	0.0499	8.0000e-005		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	7.0215	7.0215	4.6000e-004	0.0000	7.0329
<b>Total</b>	<b>0.7787</b>	<b>0.0387</b>	<b>0.0499</b>	<b>8.0000e-005</b>		<b>2.2500e-003</b>	<b>2.2500e-003</b>		<b>2.2500e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>7.0215</b>	<b>7.0215</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>7.0329</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	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	6.6600e-003	4.9900e-003	0.0575	1.7000e-004	0.0181	1.4000e-004	0.0182	4.8000e-003	1.3000e-004	4.9400e-003	0.0000	15.7436	15.7436	4.3000e-004	0.0000	15.7544
<b>Total</b>	<b>6.6600e-003</b>	<b>4.9900e-003</b>	<b>0.0575</b>	<b>1.7000e-004</b>	<b>0.0181</b>	<b>1.4000e-004</b>	<b>0.0182</b>	<b>4.8000e-003</b>	<b>1.3000e-004</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>15.7436</b>	<b>15.7436</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>15.7544</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.7731					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0162	0.0891	0.0940	8.0000e-005		7.5200e-003	7.5200e-003		7.5200e-003	7.5200e-003	0.0000	7.0214	7.0214	4.6000e-004	0.0000	7.0329
<b>Total</b>	<b>0.7893</b>	<b>0.0891</b>	<b>0.0940</b>	<b>8.0000e-005</b>		<b>7.5200e-003</b>	<b>7.5200e-003</b>		<b>7.5200e-003</b>	<b>7.5200e-003</b>	<b>0.0000</b>	<b>7.0214</b>	<b>7.0214</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>7.0329</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	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	6.6600e-003	4.9900e-003	0.0575	1.7000e-004	0.0181	1.4000e-004	0.0182	4.8000e-003	1.3000e-004	4.9400e-003	0.0000	15.7436	15.7436	4.3000e-004	0.0000	15.7544
<b>Total</b>	<b>6.6600e-003</b>	<b>4.9900e-003</b>	<b>0.0575</b>	<b>1.7000e-004</b>	<b>0.0181</b>	<b>1.4000e-004</b>	<b>0.0182</b>	<b>4.8000e-003</b>	<b>1.3000e-004</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>15.7436</b>	<b>15.7436</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>15.7544</b>

**3.5 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4779					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2600e-003	0.0222	0.0308	5.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003	0.0000	4.3405	4.3405	2.6000e-004	0.0000	4.3470
<b>Total</b>	<b>0.4812</b>	<b>0.0222</b>	<b>0.0308</b>	<b>5.0000e-005</b>		<b>1.2000e-003</b>	<b>1.2000e-003</b>		<b>1.2000e-003</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>4.3405</b>	<b>4.3405</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>4.3470</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	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	3.8700e-003	2.7900e-003	0.0327	1.0000e-004	0.0112	9.0000e-005	0.0113	2.9700e-003	8.0000e-005	3.0500e-003	0.0000	9.3762	9.3762	2.4000e-004	0.0000	9.3823
<b>Total</b>	<b>3.8700e-003</b>	<b>2.7900e-003</b>	<b>0.0327</b>	<b>1.0000e-004</b>	<b>0.0112</b>	<b>9.0000e-005</b>	<b>0.0113</b>	<b>2.9700e-003</b>	<b>8.0000e-005</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>9.3762</b>	<b>9.3762</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>9.3823</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.4779					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.0551	0.0581	5.0000e-005		4.6500e-003	4.6500e-003		4.6500e-003	4.6500e-003	0.0000	4.3405	4.3405	2.6000e-004	0.0000	4.3470
<b>Total</b>	<b>0.4879</b>	<b>0.0551</b>	<b>0.0581</b>	<b>5.0000e-005</b>		<b>4.6500e-003</b>	<b>4.6500e-003</b>		<b>4.6500e-003</b>	<b>4.6500e-003</b>	<b>0.0000</b>	<b>4.3405</b>	<b>4.3405</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>4.3470</b>

**Mitigated Construction Off-Site**



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	7.1100e-003	5.1300e-003	0.0601	1.9000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6000e-003	0.0000	17.2357	17.2357	4.4000e-004	0.0000	17.2468
<b>Total</b>	<b>7.1100e-003</b>	<b>5.1300e-003</b>	<b>0.0601</b>	<b>1.9000e-004</b>	<b>0.0206</b>	<b>1.6000e-004</b>	<b>0.0207</b>	<b>5.4600e-003</b>	<b>1.5000e-004</b>	<b>5.6000e-003</b>	<b>0.0000</b>	<b>17.2357</b>	<b>17.2357</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>17.2468</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.1473	1.3469	1.4413	1.7400e-003		0.0885	0.0885		0.0885	0.0885	0.0000	149.9551	149.9551	0.0340	0.0000	150.8058
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1473</b>	<b>1.3469</b>	<b>1.4413</b>	<b>1.7400e-003</b>		<b>0.0885</b>	<b>0.0885</b>		<b>0.0885</b>	<b>0.0885</b>	<b>0.0000</b>	<b>149.9551</b>	<b>149.9551</b>	<b>0.0340</b>	<b>0.0000</b>	<b>150.8058</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	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	7.1100e-003	5.1300e-003	0.0601	1.9000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6000e-003	0.0000	17.2357	17.2357	4.4000e-004	0.0000	17.2468
<b>Total</b>	<b>7.1100e-003</b>	<b>5.1300e-003</b>	<b>0.0601</b>	<b>1.9000e-004</b>	<b>0.0206</b>	<b>1.6000e-004</b>	<b>0.0207</b>	<b>5.4600e-003</b>	<b>1.5000e-004</b>	<b>5.6000e-003</b>	<b>0.0000</b>	<b>17.2357</b>	<b>17.2357</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>17.2468</b>



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1450	5.1923	13.5080	0.0507	4.3223	0.0393	4.3616	1.1585	0.0365	1.1950	0.0000	4,695.1882	4,695.1882	0.2326	0.0000	4,701.0038
Unmitigated	1.1860	5.4135	14.5123	0.0552	4.7373	0.0426	4.7799	1.2697	0.0396	1.3093	0.0000	5,109.6759	5,109.6759	0.2505	0.0000	5,115.9386

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,211.02	1,211.02	1211.02	4,138,239	3,775,704
Regional Shopping Center	3,858.10	3,858.10	3858.10	8,344,468	7,613,442
Total	5,069.12	5,069.12	5,069.12	12,482,708	11,389,146

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Regional Shopping Center	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable 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	1,143.6960	1,143.6960	0.0270	5.5900e-003	1,146.0367
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,192.6986	1,192.6986	0.0282	5.8300e-003	1,195.1396
NaturalGas Mitigated	0.0183	0.1569	0.0680	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.5461	181.5461	3.4800e-003	3.3300e-003	182.6249
NaturalGas Unmitigated	0.0203	0.1736	0.0752	1.1100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	200.8201	200.8201	3.8500e-003	3.6800e-003	202.0135

#### 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
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Land Use	kBTU/yr	tons/yr									MT/yr						
Apartments Mid Rise	3.69599e+006	0.0199	0.1703	0.0725	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	197.2323	197.2323	3.7800e-003	3.6200e-003	198.4043
Regional Shopping Center	67233.4	3.6000e-004	3.3000e-003	2.7700e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5878	3.5878	7.0000e-005	7.0000e-005	3.6092
<b>Total</b>		<b>0.0203</b>	<b>0.1736</b>	<b>0.0752</b>	<b>1.1100e-003</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0140</b>	<b>0.0140</b>	<b>0.0000</b>	<b>200.8201</b>	<b>200.8201</b>	<b>3.8500e-003</b>	<b>3.6900e-003</b>	<b>202.0135</b>

### Mitigated

Land Use	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						
Apartments Mid Rise	3.34424e+006	0.0180	0.1541	0.0656	9.8000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	178.4614	178.4614	3.4200e-003	3.2700e-003	179.5219
Regional Shopping Center	57804.4	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0847	3.0847	6.0000e-005	6.0000e-005	3.1030
<b>Total</b>		<b>0.0183</b>	<b>0.1569</b>	<b>0.0680</b>	<b>1.0000e-003</b>		<b>0.0127</b>	<b>0.0127</b>		<b>0.0127</b>	<b>0.0127</b>	<b>0.0000</b>	<b>181.5461</b>	<b>181.5461</b>	<b>3.4800e-003</b>	<b>3.3300e-003</b>	<b>182.6249</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.58799e+006	884.4505	0.0209	4.3200e-003	886.2606
Regional Shopping Center	553446	308.2481	7.2800e-003	1.5100e-003	308.8790
<b>Total</b>		<b>1,192.6986</b>	<b>0.0282</b>	<b>5.8300e-003</b>	<b>1,195.1396</b>





Consumer Products	1.3735				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0660	0.0378	3.1419	1.4000e-004	0.0171	0.0171		0.0171	0.0171	0.0000	4.7274	4.7274	3.4000e-003	0.0000	4.8123
<b>Total</b>	<b>1.5646</b>	<b>0.0378</b>	<b>3.1419</b>	<b>1.4000e-004</b>	<b>0.0171</b>	<b>0.0171</b>		<b>0.0171</b>	<b>0.0171</b>	<b>0.0000</b>	<b>4.7274</b>	<b>4.7274</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>4.8123</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Use Grey Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	212.9700	0.5549	0.0140	231.0136
Unmitigated	334.1927	0.9580	0.0240	365.3019

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	26.1268 / 16.4712	299.6866	0.8582	0.0215	327.5569
Regional Shopping Center	3.03697 / 1.86137	34.5061	0.0998	2.5000e-003	37.7451
<b>Total</b>		<b>334.1927</b>	<b>0.9580</b>	<b>0.0240</b>	<b>365.3019</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	15.1201 / 12.3732	191.0140	0.4971	0.0125	207.1791
Regional Shopping Center	1.75756 / 1.39826	21.9560	0.0578	1.4600e-003	23.8345
<b>Total</b>		<b>212.9700</b>	<b>0.5549</b>	<b>0.0140</b>	<b>231.0136</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.5456	0.6823	0.0000	28.6038
Unmitigated	46.1825	2.7293	0.0000	114.4151

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	184.46	37.4437	2.2129	0.0000	92.7652
Regional Shopping Center	43.05	8.7388	0.5165	0.0000	21.6499
<b>Total</b>		<b>46.1825</b>	<b>2.7293</b>	<b>0.0000</b>	<b>114.4151</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	46.115	9.3609	0.5532	0.0000	23.1913



Regional Shopping Center	10.7625	2.1847	0.1291	0.0000	5.4125
<b>Total</b>		<b>11.5456</b>	<b>0.6823</b>	<b>0.0000</b>	<b>28.6038</b>

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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