

**APPENDIX E:**  
**GREENHOUSE GAS EMISSIONS CALCULATIONS WORKSHEETS**

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## Enlightenment Plaza\_Existing Conditions - Los Angeles-South Coast County, Annual

## Enlightenment Plaza\_Existing Conditions

### Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	7.81	1000sqft	1.93	7,810.00	0
Single Family Housing	3.00	Dwelling Unit	0.16	1,516.00	9

### 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>	2019
<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 - For the Existing Conditions scenario ignore all construction data.

Land Use - Existing conditions includes 3 SF dwelling units (1,516 sf) and 7,810 sf of light industrial (ATT service yard). This scenario excludes 3838 Oakwood as that property is to remain as office use with no change in land use or floor area.

Construction Phase - Ignore all construction data.

Off-road Equipment - Ignore all construction data.

Vehicle Trips - ADT rates were adjusted to match the Traffic Study assumptions for existing uses, which were based on manual driveway counts in 2019.

Woodstoves - No woodstoves or fireplaces observed for existing uses.

Energy Use - Historic Title 24 applied for all energy use.

## Enlightenment Plaza\_Existing Conditions - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	10/22/2019	9/25/2019
tblEnergyUse	LightingElect	3.85	3.10
tblEnergyUse	NT24E	5,089.81	6,155.97
tblEnergyUse	NT24NG	5,819.00	4,831.00
tblEnergyUse	Refrigerator	1,251.38	827.00
tblEnergyUse	T24E	2.94	2.25
tblEnergyUse	T24E	467.55	210.90
tblEnergyUse	T24NG	15.35	13.65
tblEnergyUse	T24NG	28,628.82	22,665.25
tblFireplaces	NumberGas	2.55	0.00
tblFireplaces	NumberNoFireplace	0.30	0.00
tblFireplaces	NumberWood	0.15	0.00
tblLandUse	LandUseSquareFeet	5,400.00	1,516.00
tblLandUse	LotAcreage	0.18	1.93
tblLandUse	LotAcreage	0.97	0.16
tblOffRoadEquipment	UsageHours	8.00	1.00
tblTripsAndVMT	WorkerTripNumber	13.00	3.00
tblVehicleTrips	ST_TR	1.32	18.00
tblVehicleTrips	SU_TR	0.68	18.00
tblVehicleTrips	WD_TR	6.97	18.00
tblWoodstoves	NumberCatalytic	0.15	0.00
tblWoodstoves	NumberNoncatalytic	0.15	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-25-2019	9-30-2019	0.0077	0.0077
		Highest	0.0077	0.0077

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	0.0388	3.6000e-004	0.0312	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0507	0.0507	5.0000e-005	0.0000	0.0520
Energy	1.2100e-003	0.0107	7.4400e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	73.5555	73.5555	1.6800e-003	5.2000e-004	73.7526
Mobile	0.0751	0.4010	1.1286	3.5300e-003	0.2731	4.1100e-003	0.2772	0.0732	3.8600e-003	0.0771	0.0000	325.0739	325.0739	0.0187	0.0000	325.5413
Waste						0.0000	0.0000		0.0000	0.0000	2.7140	0.0000	2.7140	0.1604	0.0000	6.7238
Water						0.0000	0.0000		0.0000	0.0000	0.6350	15.2780	15.9129	0.0656	1.6100e-003	18.0336
<b>Total</b>	<b>0.1150</b>	<b>0.4121</b>	<b>1.1672</b>	<b>3.6000e-003</b>	<b>0.2731</b>	<b>5.1100e-003</b>	<b>0.2782</b>	<b>0.0732</b>	<b>4.8600e-003</b>	<b>0.0781</b>	<b>3.3490</b>	<b>413.9581</b>	<b>417.3071</b>	<b>0.2464</b>	<b>2.1300e-003</b>	<b>424.1033</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0388	3.6000e-004	0.0312	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0507	0.0507	5.0000e-005	0.0000	0.0520
Energy	1.2100e-003	0.0107	7.4400e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	73.5555	73.5555	1.6800e-003	5.2000e-004	73.7526
Mobile	0.0751	0.4010	1.1286	3.5300e-003	0.2731	4.1100e-003	0.2772	0.0732	3.8600e-003	0.0771	0.0000	325.0739	325.0739	0.0187	0.0000	325.5413
Waste						0.0000	0.0000		0.0000	0.0000	2.7140	0.0000	2.7140	0.1604	0.0000	6.7238
Water						0.0000	0.0000		0.0000	0.0000	0.6350	15.2780	15.9129	0.0656	1.6100e-003	18.0336
<b>Total</b>	<b>0.1150</b>	<b>0.4121</b>	<b>1.1672</b>	<b>3.6000e-003</b>	<b>0.2731</b>	<b>5.1100e-003</b>	<b>0.2782</b>	<b>0.0732</b>	<b>4.8600e-003</b>	<b>0.0781</b>	<b>3.3490</b>	<b>413.9581</b>	<b>417.3071</b>	<b>0.2464</b>	<b>2.1300e-003</b>	<b>424.1033</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	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	9/25/2019	9/25/2019	5	1	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	1.00	81	0.73

**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	5	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5000e-004	9.7700e-003	5.8300e-003	1.0000e-005		5.4000e-004	5.4000e-004		5.0000e-004	5.0000e-004	0.0000	0.8356	0.8356	2.6000e-004	0.0000	0.8420
<b>Total</b>	<b>9.5000e-004</b>	<b>9.7700e-003</b>	<b>5.8300e-003</b>	<b>1.0000e-005</b>		<b>5.4000e-004</b>	<b>5.4000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>0.8356</b>	<b>0.8356</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.8420</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	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0158	0.0158	0.0000	0.0000	0.0158
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0158</b>	<b>0.0158</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0158</b>

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**3.2 Demolition - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5000e-004	9.7700e-003	5.8300e-003	1.0000e-005		5.4000e-004	5.4000e-004		5.0000e-004	5.0000e-004	0.0000	0.8356	0.8356	2.6000e-004	0.0000	0.8420
<b>Total</b>	<b>9.5000e-004</b>	<b>9.7700e-003</b>	<b>5.8300e-003</b>	<b>1.0000e-005</b>		<b>5.4000e-004</b>	<b>5.4000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>0.8356</b>	<b>0.8356</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.8420</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	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0158	0.0158	0.0000	0.0000	0.0158
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0158</b>	<b>0.0158</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0158</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0751	0.4010	1.1286	3.5300e-003	0.2731	4.1100e-003	0.2772	0.0732	3.8600e-003	0.0771	0.0000	325.0739	325.0739	0.0187	0.0000	325.5413
Unmitigated	0.0751	0.4010	1.1286	3.5300e-003	0.2731	4.1100e-003	0.2772	0.0732	3.8600e-003	0.0771	0.0000	325.0739	325.0739	0.0187	0.0000	325.5413

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	140.58	140.58	140.58	622,527	622,527
Single Family Housing	28.56	29.73	25.86	96,847	96,847
Total	169.14	170.31	166.44	719,374	719,374

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Single Family Housing	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.6100	61.6100	1.4600e-003	3.0000e-004	61.7361
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.6100	61.6100	1.4600e-003	3.0000e-004	61.7361
NaturalGas Mitigated	1.2100e-003	0.0107	7.4400e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	11.9455	11.9455	2.3000e-004	2.2000e-004	12.0165
NaturalGas Unmitigated	1.2100e-003	0.0107	7.4400e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	11.9455	11.9455	2.3000e-004	2.2000e-004	12.0165

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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	tons/yr										MT/yr					
General Light Industry	141361	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.5436	7.5436	1.4000e-004	1.4000e-004	7.5884
Single Family Housing	82488.8	4.4000e-004	3.8000e-003	1.6200e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4019	4.4019	8.0000e-005	8.0000e-005	4.4281
<b>Total</b>		<b>1.2000e-003</b>	<b>0.0107</b>	<b>7.4400e-003</b>	<b>6.0000e-005</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>11.9455</b>	<b>11.9455</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>12.0165</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	141361	7.6000e-004	6.9300e-003	5.8200e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.5436	7.5436	1.4000e-004	1.4000e-004	7.5884
Single Family Housing	82488.8	4.4000e-004	3.8000e-003	1.6200e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4019	4.4019	8.0000e-005	8.0000e-005	4.4281
<b>Total</b>		<b>1.2000e-003</b>	<b>0.0107</b>	<b>7.4400e-003</b>	<b>6.0000e-005</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>11.9455</b>	<b>11.9455</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>12.0165</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	86691	48.2836	1.1400e-003	2.4000e-004	48.3824
Single Family Housing	23927.1	13.3265	3.1000e-004	7.0000e-005	13.3538
<b>Total</b>		<b>61.6100</b>	<b>1.4500e-003</b>	<b>3.1000e-004</b>	<b>61.7361</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	86691	48.2836	1.1400e-003	2.4000e-004	48.3824
Single Family Housing	23927.1	13.3265	3.1000e-004	7.0000e-005	13.3538
<b>Total</b>		<b>61.6100</b>	<b>1.4500e-003</b>	<b>3.1000e-004</b>	<b>61.7361</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0388	3.6000e-004	0.0312	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0507	0.0507	5.0000e-005	0.0000	0.0520
Unmitigated	0.0388	3.6000e-004	0.0312	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0507	0.0507	5.0000e-005	0.0000	0.0520

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	4.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0337					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	9.6000e-004	3.6000e-004	0.0312	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0507	0.0507	5.0000e-005	0.0000	0.0520
<b>Total</b>	<b>0.0388</b>	<b>3.6000e-004</b>	<b>0.0312</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0507</b>	<b>0.0507</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0520</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0337					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	9.6000e-004	3.6000e-004	0.0312	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0507	0.0507	5.0000e-005	0.0000	0.0520
<b>Total</b>	<b>0.0388</b>	<b>3.6000e-004</b>	<b>0.0312</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0507</b>	<b>0.0507</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0520</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	15.9129	0.0656	1.6100e-003	18.0336
Unmitigated	15.9129	0.0656	1.6100e-003	18.0336

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.80606 / 0	13.6709	0.0592	1.4500e-003	15.5831
Single Family Housing	0.195462 / 0.123226	2.2420	6.4200e-003	1.6000e-004	2.4506
<b>Total</b>		<b>15.9129</b>	<b>0.0656</b>	<b>1.6100e-003</b>	<b>18.0336</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.80606 / 0	13.6709	0.0592	1.4500e-003	15.5831
Single Family Housing	0.195462 / 0.123226	2.2420	6.4200e-003	1.6000e-004	2.4506
<b>Total</b>		<b>15.9129</b>	<b>0.0656</b>	<b>1.6100e-003</b>	<b>18.0336</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.7140	0.1604	0.0000	6.7238
Unmitigated	2.7140	0.1604	0.0000	6.7238

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	9.68	1.9650	0.1161	0.0000	4.8681
Single Family Housing	3.69	0.7490	0.0443	0.0000	1.8557
<b>Total</b>		<b>2.7140</b>	<b>0.1604</b>	<b>0.0000</b>	<b>6.7238</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	9.68	1.9650	0.1161	0.0000	4.8681
Single Family Housing	3.69	0.7490	0.0443	0.0000	1.8557
<b>Total</b>		<b>2.7140</b>	<b>0.1604</b>	<b>0.0000</b>	<b>6.7238</b>

**9.0 Operational Offroad**

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

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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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**Enlightenment Plaza**  
**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	454.00	Dwelling Unit	2.08	247,812.00	564

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2023
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1227.89	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Lot area per survey excludes 3838 Oakwood Avenue. Population estimate is based on 564 persons per Applicant's data for room occupancy.

Construction Phase - Construction schedule conservatively assumes an approximate 24 month buildout.

Off-road Equipment - Equipment added to architectural coating phase (added 3 air compressors, 4 aerial lifts and 2 forklifts).

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	95.00
tblConstructionPhase	NumDays	220.00	350.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	3.00	10.00

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tblConstructionPhase	PhaseEndDate	5/2/2022	5/1/2023
tblConstructionPhase	PhaseEndDate	4/4/2022	12/5/2022
tblConstructionPhase	PhaseEndDate	5/31/2021	8/2/2021
tblConstructionPhase	PhaseEndDate	4/18/2022	12/19/2022
tblConstructionPhase	PhaseEndDate	5/21/2021	6/1/2021
tblConstructionPhase	PhaseStartDate	4/19/2022	12/20/2022
tblConstructionPhase	PhaseStartDate	6/1/2021	8/3/2021
tblConstructionPhase	PhaseStartDate	5/22/2021	6/2/2021
tblConstructionPhase	PhaseStartDate	4/5/2022	12/6/2022
tblFireplaces	NumberGas	385.90	0.00
tblFireplaces	NumberNoFireplace	45.40	0.00
tblFireplaces	NumberWood	22.70	0.00
tblGrading	AcresOfGrading	22.00	3.00
tblGrading	AcresOfGrading	15.00	4.50
tblGrading	MaterialExported	0.00	3,040.00
tblGrading	MaterialExported	0.00	845.00
tblLandUse	LandUseSquareFeet	454,000.00	247,812.00
tblLandUse	LotAcreage	11.95	2.08
tblLandUse	Population	1,298.00	564.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Architectural Coating
tblOffRoadEquipment	PhaseName		Architectural Coating
tblSequestration	NumberOfNewTrees	0.00	92.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00

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tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	106.00	120.00
tblTripsAndVMT	HaulingTripNumber	380.00	435.00
tblVehicleTrips	ST_TR	6.39	1.27
tblVehicleTrips	SU_TR	5.86	1.27
tblVehicleTrips	WD_TR	6.65	1.27

**2.0 Emissions Summary**

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**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	0.2689	2.0244	1.9894	5.1200e-003	0.3638	0.0811	0.4449	0.1335	0.0765	0.2100	0.0000	457.2988	457.2988	0.0552	0.0000	458.6775
2022	0.4844	2.5204	3.3785	8.8800e-003	0.4730	0.0937	0.5667	0.1265	0.0896	0.2161	0.0000	789.2459	789.2459	0.0710	0.0000	791.0220
2023	0.7565	0.3625	0.6158	1.1100e-003	0.0306	0.0174	0.0481	8.1300e-003	0.0170	0.0252	0.0000	97.3014	97.3014	0.0123	0.0000	97.6075
<b>Maximum</b>	<b>0.7565</b>	<b>2.5204</b>	<b>3.3785</b>	<b>8.8800e-003</b>	<b>0.4730</b>	<b>0.0937</b>	<b>0.5667</b>	<b>0.1335</b>	<b>0.0896</b>	<b>0.2161</b>	<b>0.0000</b>	<b>789.2459</b>	<b>789.2459</b>	<b>0.0710</b>	<b>0.0000</b>	<b>791.0220</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	0.2689	2.0244	1.9894	5.1200e-003	0.2861	0.0811	0.3672	0.0928	0.0765	0.1693	0.0000	457.2986	457.2986	0.0552	0.0000	458.6773
2022	0.4844	2.5204	3.3785	8.8800e-003	0.4730	0.0937	0.5667	0.1265	0.0896	0.2161	0.0000	789.2456	789.2456	0.0710	0.0000	791.0217
2023	0.7565	0.3625	0.6158	1.1100e-003	0.0306	0.0174	0.0481	8.1300e-003	0.0170	0.0252	0.0000	97.3013	97.3013	0.0123	0.0000	97.6074
<b>Maximum</b>	<b>0.7565</b>	<b>2.5204</b>	<b>3.3785</b>	<b>8.8800e-003</b>	<b>0.4730</b>	<b>0.0937</b>	<b>0.5667</b>	<b>0.1265</b>	<b>0.0896</b>	<b>0.2161</b>	<b>0.0000</b>	<b>789.2456</b>	<b>789.2456</b>	<b>0.0710</b>	<b>0.0000</b>	<b>791.0217</b>



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	8.96	0.00	7.33	15.17	0.00	9.02	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	4-21-2021	7-20-2021	0.7829	0.7829
2	7-21-2021	10-20-2021	0.8344	0.8344
3	10-21-2021	1-20-2022	0.8265	0.8265
4	1-21-2022	4-20-2022	0.7551	0.7551
5	4-21-2022	7-20-2022	0.7575	0.7575
6	7-21-2022	10-20-2022	0.7675	0.7675
7	10-21-2022	1-20-2023	0.7396	0.7396
8	1-21-2023	4-20-2023	0.8368	0.8368
9	4-21-2023	7-20-2023	0.1021	0.1021
		Highest	0.8368	0.8368

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**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	1.2673	0.0767	6.0739	4.7900e-003		0.2528	0.2528		0.2528	0.2528	30.3833	7.6479	38.0311	0.1494	0.0000	41.7659
Energy	0.0226	0.1928	0.0821	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	1,224.6483	1,224.6483	0.0279	8.9900e-003	1,228.0246
Mobile	0.1638	0.7482	2.2960	8.7500e-003	0.7478	6.6200e-003	0.7544	0.2004	6.1600e-003	0.2066	0.0000	808.4523	808.4523	0.0395	0.0000	809.4397
Stationary	0.0394	0.1761	0.1004	1.9000e-004		5.7900e-003	5.7900e-003		5.7900e-003	5.7900e-003	0.0000	18.2783	18.2783	2.5600e-003	0.0000	18.3423
Waste						0.0000	0.0000		0.0000	0.0000	42.3926	0.0000	42.3926	2.5053	0.0000	105.0260
Water						0.0000	0.0000		0.0000	0.0000	9.3844	329.9117	339.2960	0.9717	0.0244	370.8499
<b>Total</b>	<b>1.4930</b>	<b>1.1938</b>	<b>8.5524</b>	<b>0.0150</b>	<b>0.7478</b>	<b>0.2808</b>	<b>1.0286</b>	<b>0.2004</b>	<b>0.2804</b>	<b>0.4808</b>	<b>82.1602</b>	<b>2,388.9384</b>	<b>2,471.0986</b>	<b>3.6964</b>	<b>0.0334</b>	<b>2,573.4484</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1141	0.0540	4.6830	2.5000e-004		0.0259	0.0259		0.0259	0.0259	0.0000	7.6479	7.6479	7.3500e-003	0.0000	7.8317
Energy	0.0215	0.1836	0.0781	1.1700e-003		0.0149	0.0149		0.0149	0.0149	0.0000	1,164.2706	1,164.2706	0.0266	8.5500e-003	1,167.4820
Mobile	0.1638	0.7482	2.2960	8.7500e-003	0.7478	6.6200e-003	0.7544	0.2004	6.1600e-003	0.2066	0.0000	808.4523	808.4523	0.0395	0.0000	809.4397
Stationary	0.0394	0.1761	0.1004	1.9000e-004		5.7900e-003	5.7900e-003		5.7900e-003	5.7900e-003	0.0000	18.2783	18.2783	2.5600e-003	0.0000	18.3423
Waste						0.0000	0.0000		0.0000	0.0000	10.5982	0.0000	10.5982	0.6263	0.0000	26.2565
Water						0.0000	0.0000		0.0000	0.0000	7.5075	263.9293	271.4368	0.7773	0.0195	296.6799
<b>Total</b>	<b>1.3388</b>	<b>1.1620</b>	<b>7.1576</b>	<b>0.0104</b>	<b>0.7478</b>	<b>0.0532</b>	<b>0.8010</b>	<b>0.2004</b>	<b>0.0527</b>	<b>0.2532</b>	<b>18.1056</b>	<b>2,262.5783</b>	<b>2,280.6840</b>	<b>1.4796</b>	<b>0.0281</b>	<b>2,326.0321</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>10.33</b>	<b>2.67</b>	<b>16.31</b>	<b>30.75</b>	<b>0.00</b>	<b>81.06</b>	<b>22.13</b>	<b>0.00</b>	<b>81.20</b>	<b>47.35</b>	<b>77.96</b>	<b>5.29</b>	<b>7.71</b>	<b>59.97</b>	<b>15.92</b>	<b>9.61</b>

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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	65.1360
<b>Total</b>	<b>65.1360</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/21/2021	5/18/2021	5	20	
2	Site Preparation	Site Preparation	5/19/2021	6/1/2021	5	10	
3	Grading	Grading	6/2/2021	8/2/2021	5	44	
4	Building Construction	Building Construction	8/3/2021	12/5/2022	5	350	
5	Paving	Paving	12/6/2022	12/19/2022	5	10	
6	Architectural Coating	Architectural Coating	12/20/2022	5/1/2023	5	95	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

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**Residential Indoor: 501,819; Residential Outdoor: 167,273; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Aerial Lifts	4	6.00	63	0.31
Architectural Coating	Air Compressors	4	6.00	78	0.48
Architectural Coating	Forklifts	2	6.00	89	0.20

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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	43.00	14.70	6.90	8.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	120.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	435.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	327.00	49.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	10	65.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 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					4.6200e-003	0.0000	4.6200e-003	7.0000e-004	0.0000	7.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
<b>Total</b>	<b>0.0199</b>	<b>0.1970</b>	<b>0.1449</b>	<b>2.4000e-004</b>	<b>4.6200e-003</b>	<b>0.0104</b>	<b>0.0150</b>	<b>7.0000e-004</b>	<b>9.7100e-003</b>	<b>0.0104</b>	<b>0.0000</b>	<b>21.0713</b>	<b>21.0713</b>	<b>5.3900e-003</b>	<b>0.0000</b>	<b>21.2060</b>

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**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	9.0000e-005	3.5600e-003	7.3000e-004	1.0000e-005	1.5000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.7822	0.7822	6.0000e-005	0.0000	0.7838
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	5.6000e-004	4.4000e-004	4.9200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2856	1.2856	4.0000e-005	0.0000	1.2865
<b>Total</b>	<b>6.5000e-004</b>	<b>4.4000e-003</b>	<b>5.6500e-003</b>	<b>2.0000e-005</b>	<b>1.5700e-003</b>	<b>2.0000e-005</b>	<b>1.6000e-003</b>	<b>4.2000e-004</b>	<b>2.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.0677</b>	<b>2.0677</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.0703</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					2.0800e-003	0.0000	2.0800e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
<b>Total</b>	<b>0.0199</b>	<b>0.1970</b>	<b>0.1449</b>	<b>2.4000e-004</b>	<b>2.0800e-003</b>	<b>0.0104</b>	<b>0.0125</b>	<b>3.2000e-004</b>	<b>9.7100e-003</b>	<b>0.0100</b>	<b>0.0000</b>	<b>21.0713</b>	<b>21.0713</b>	<b>5.3900e-003</b>	<b>0.0000</b>	<b>21.2060</b>

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**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	9.0000e-005	3.5600e-003	7.3000e-004	1.0000e-005	1.5000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.7822	0.7822	6.0000e-005	0.0000	0.7838
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	5.6000e-004	4.4000e-004	4.9200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2856	1.2856	4.0000e-005	0.0000	1.2865
<b>Total</b>	<b>6.5000e-004</b>	<b>4.0000e-003</b>	<b>5.6500e-003</b>	<b>2.0000e-005</b>	<b>1.5700e-003</b>	<b>2.0000e-005</b>	<b>1.6000e-003</b>	<b>4.2000e-004</b>	<b>2.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.0677</b>	<b>2.0677</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.0703</b>

**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					
Fugitive Dust					2.4300e-003	0.0000	2.4300e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7300e-003	0.0914	0.0538	1.2000e-004		3.5100e-003	3.5100e-003		3.2300e-003	3.2300e-003	0.0000	10.7632	10.7632	3.4800e-003	0.0000	10.8502
<b>Total</b>	<b>7.7300e-003</b>	<b>0.0914</b>	<b>0.0538</b>	<b>1.2000e-004</b>	<b>2.4300e-003</b>	<b>3.5100e-003</b>	<b>5.9400e-003</b>	<b>2.6000e-004</b>	<b>3.2300e-003</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>10.7632</b>	<b>10.7632</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>10.8502</b>



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**3.3 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	6.1000e-004	0.0194	4.6400e-003	6.0000e-005	1.2900e-003	6.0000e-005	1.3500e-003	3.5000e-004	6.0000e-005	4.1000e-004	0.0000	5.5700	5.5700	3.7000e-004	0.0000	5.5794
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	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
<b>Total</b>	<b>7.8000e-004</b>	<b>0.0195</b>	<b>6.1500e-003</b>	<b>6.0000e-005</b>	<b>1.7300e-003</b>	<b>6.0000e-005</b>	<b>1.7900e-003</b>	<b>4.7000e-004</b>	<b>6.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>5.9656</b>	<b>5.9656</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>5.9753</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					1.1000e-003	0.0000	1.1000e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7300e-003	0.0914	0.0538	1.2000e-004		3.5100e-003	3.5100e-003		3.2300e-003	3.2300e-003	0.0000	10.7632	10.7632	3.4800e-003	0.0000	10.8502
<b>Total</b>	<b>7.7300e-003</b>	<b>0.0914</b>	<b>0.0538</b>	<b>1.2000e-004</b>	<b>1.1000e-003</b>	<b>3.5100e-003</b>	<b>4.6100e-003</b>	<b>1.2000e-004</b>	<b>3.2300e-003</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>10.7632</b>	<b>10.7632</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>10.8502</b>

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**3.3 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	6.1000e-004	0.0194	4.6400e-003	6.0000e-005	1.2900e-003	6.0000e-005	1.3500e-003	3.5000e-004	6.0000e-005	4.1000e-004	0.0000	5.5700	5.5700	3.7000e-004	0.0000	5.5794
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	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
<b>Total</b>	<b>7.8000e-004</b>	<b>0.0195</b>	<b>6.1500e-003</b>	<b>6.0000e-005</b>	<b>1.7300e-003</b>	<b>6.0000e-005</b>	<b>1.7900e-003</b>	<b>4.7000e-004</b>	<b>6.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>5.9656</b>	<b>5.9656</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>5.9753</b>

**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					0.1343	0.0000	0.1343	0.0730	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0402	0.4447	0.2147	4.5000e-004		0.0202	0.0202		0.0185	0.0185	0.0000	39.8285	39.8285	0.0129	0.0000	40.1506
<b>Total</b>	<b>0.0402</b>	<b>0.4447</b>	<b>0.2147</b>	<b>4.5000e-004</b>	<b>0.1343</b>	<b>0.0202</b>	<b>0.1544</b>	<b>0.0730</b>	<b>0.0185</b>	<b>0.0916</b>	<b>0.0000</b>	<b>39.8285</b>	<b>39.8285</b>	<b>0.0129</b>	<b>0.0000</b>	<b>40.1506</b>

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**3.4 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	2.2000e-003	0.0703	0.0168	2.1000e-004	4.6700e-003	2.2000e-004	4.8900e-003	1.2800e-003	2.1000e-004	1.5000e-003	0.0000	20.1914	20.1914	1.3600e-003	0.0000	20.2253
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	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>3.1500e-003</b>	<b>0.0710</b>	<b>0.0251</b>	<b>2.3000e-004</b>	<b>7.0800e-003</b>	<b>2.4000e-004</b>	<b>7.3200e-003</b>	<b>1.9200e-003</b>	<b>2.3000e-004</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>22.3670</b>	<b>22.3670</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>22.4026</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0604	0.0000	0.0604	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0402	0.4447	0.2147	4.5000e-004		0.0202	0.0202		0.0185	0.0185	0.0000	39.8285	39.8285	0.0129	0.0000	40.1505
<b>Total</b>	<b>0.0402</b>	<b>0.4447</b>	<b>0.2147</b>	<b>4.5000e-004</b>	<b>0.0604</b>	<b>0.0202</b>	<b>0.0806</b>	<b>0.0329</b>	<b>0.0185</b>	<b>0.0514</b>	<b>0.0000</b>	<b>39.8285</b>	<b>39.8285</b>	<b>0.0129</b>	<b>0.0000</b>	<b>40.1505</b>

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**3.4 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	2.2000e-003	0.0703	0.0168	2.1000e-004	4.6700e-003	2.2000e-004	4.8900e-003	1.2800e-003	2.1000e-004	1.5000e-003	0.0000	20.1914	20.1914	1.3600e-003	0.0000	20.2253
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	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
<b>Total</b>	<b>3.1500e-003</b>	<b>0.0710</b>	<b>0.0251</b>	<b>2.3000e-004</b>	<b>7.0800e-003</b>	<b>2.4000e-004</b>	<b>7.3200e-003</b>	<b>1.9200e-003</b>	<b>2.3000e-004</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>22.3670</b>	<b>22.3670</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>22.4026</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1115	0.8735	0.7937	1.3600e-003		0.0445	0.0445		0.0427	0.0427	0.0000	113.1686	113.1686	0.0223	0.0000	113.7252
<b>Total</b>	<b>0.1115</b>	<b>0.8735</b>	<b>0.7937</b>	<b>1.3600e-003</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0427</b>	<b>0.0427</b>	<b>0.0000</b>	<b>113.1686</b>	<b>113.1686</b>	<b>0.0223</b>	<b>0.0000</b>	<b>113.7252</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	8.2900e-003	0.2636	0.0715	6.8000e-004	0.0168	5.4000e-004	0.0174	4.8500e-003	5.1000e-004	5.3700e-003	0.0000	65.8269	65.8269	4.0400e-003	0.0000	65.9279
Worker	0.0767	0.0597	0.6739	1.9500e-003	0.1953	1.6100e-003	0.1969	0.0519	1.4800e-003	0.0534	0.0000	176.2399	176.2399	5.1900e-003	0.0000	176.3695
<b>Total</b>	<b>0.0850</b>	<b>0.3233</b>	<b>0.7454</b>	<b>2.6300e-003</b>	<b>0.2121</b>	<b>2.1500e-003</b>	<b>0.2143</b>	<b>0.0567</b>	<b>1.9900e-003</b>	<b>0.0587</b>	<b>0.0000</b>	<b>242.0668</b>	<b>242.0668</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>242.2974</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	0.1115	0.8735	0.7937	1.3600e-003		0.0445	0.0445		0.0427	0.0427	0.0000	113.1684	113.1684	0.0223	0.0000	113.7250
<b>Total</b>	<b>0.1115</b>	<b>0.8735</b>	<b>0.7937</b>	<b>1.3600e-003</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0427</b>	<b>0.0427</b>	<b>0.0000</b>	<b>113.1684</b>	<b>113.1684</b>	<b>0.0223</b>	<b>0.0000</b>	<b>113.7250</b>

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	8.2900e-003	0.2636	0.0715	6.8000e-004	0.0168	5.4000e-004	0.0174	4.8500e-003	5.1000e-004	5.3700e-003	0.0000	65.8269	65.8269	4.0400e-003	0.0000	65.9279
Worker	0.0767	0.0597	0.6739	1.9500e-003	0.1953	1.6100e-003	0.1969	0.0519	1.4800e-003	0.0534	0.0000	176.2399	176.2399	5.1900e-003	0.0000	176.3695
<b>Total</b>	<b>0.0850</b>	<b>0.3233</b>	<b>0.7454</b>	<b>2.6300e-003</b>	<b>0.2121</b>	<b>2.1500e-003</b>	<b>0.2143</b>	<b>0.0567</b>	<b>1.9900e-003</b>	<b>0.0587</b>	<b>0.0000</b>	<b>242.0668</b>	<b>242.0668</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>242.2974</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2236	1.7598	1.7296	3.0200e-003		0.0846	0.0846		0.0811	0.0811	0.0000	250.2545	250.2545	0.0483	0.0000	251.4616
<b>Total</b>	<b>0.2236</b>	<b>1.7598</b>	<b>1.7296</b>	<b>3.0200e-003</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0811</b>	<b>0.0811</b>	<b>0.0000</b>	<b>250.2545</b>	<b>250.2545</b>	<b>0.0483</b>	<b>0.0000</b>	<b>251.4616</b>

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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0172	0.5536	0.1495	1.4900e-003	0.0372	1.0400e-003	0.0382	0.0107	9.9000e-004	0.0117	0.0000	144.2656	144.2656	8.6200e-003	0.0000	144.4810
Worker	0.1590	0.1192	1.3729	4.1600e-003	0.4318	3.4500e-003	0.4352	0.1147	3.1800e-003	0.1179	0.0000	375.9704	375.9704	0.0104	0.0000	376.2292
<b>Total</b>	<b>0.1762</b>	<b>0.6728</b>	<b>1.5224</b>	<b>5.6500e-003</b>	<b>0.4690</b>	<b>4.4900e-003</b>	<b>0.4735</b>	<b>0.1254</b>	<b>4.1700e-003</b>	<b>0.1296</b>	<b>0.0000</b>	<b>520.2359</b>	<b>520.2359</b>	<b>0.0190</b>	<b>0.0000</b>	<b>520.7102</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	0.2236	1.7598	1.7296	3.0200e-003		0.0846	0.0846		0.0811	0.0811	0.0000	250.2542	250.2542	0.0483	0.0000	251.4613
<b>Total</b>	<b>0.2236</b>	<b>1.7598</b>	<b>1.7296</b>	<b>3.0200e-003</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0811</b>	<b>0.0811</b>	<b>0.0000</b>	<b>250.2542</b>	<b>250.2542</b>	<b>0.0483</b>	<b>0.0000</b>	<b>251.4613</b>

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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0172	0.5536	0.1495	1.4900e-003	0.0372	1.0400e-003	0.0382	0.0107	9.9000e-004	0.0117	0.0000	144.2656	144.2656	8.6200e-003	0.0000	144.4810
Worker	0.1590	0.1192	1.3729	4.1600e-003	0.4318	3.4500e-003	0.4352	0.1147	3.1800e-003	0.1179	0.0000	375.9704	375.9704	0.0104	0.0000	376.2292
<b>Total</b>	<b>0.1762</b>	<b>0.6728</b>	<b>1.5224</b>	<b>5.6500e-003</b>	<b>0.4690</b>	<b>4.4900e-003</b>	<b>0.4735</b>	<b>0.1254</b>	<b>4.1700e-003</b>	<b>0.1296</b>	<b>0.0000</b>	<b>520.2359</b>	<b>520.2359</b>	<b>0.0190</b>	<b>0.0000</b>	<b>520.7102</b>

**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	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
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>4.7100e-003</b>	<b>0.0467</b>	<b>0.0585</b>	<b>9.0000e-005</b>		<b>2.4400e-003</b>	<b>2.4400e-003</b>		<b>2.2500e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>7.7550</b>	<b>7.7550</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8165</b>



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**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	3.0000e-004	2.3000e-004	2.6100e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7156	0.7156	2.0000e-005	0.0000	0.7161
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3000e-004</b>	<b>2.6100e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.7156</b>	<b>0.7156</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7161</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	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
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>4.7100e-003</b>	<b>0.0467</b>	<b>0.0585</b>	<b>9.0000e-005</b>		<b>2.4400e-003</b>	<b>2.4400e-003</b>		<b>2.2500e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>7.7550</b>	<b>7.7550</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8165</b>

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**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	3.0000e-004	2.3000e-004	2.6100e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7156	0.7156	2.0000e-005	0.0000	0.7161
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3000e-004</b>	<b>2.6100e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.7156</b>	<b>0.7156</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7161</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9400e-003	0.0400	0.0552	9.0000e-005		2.0800e-003	2.0800e-003		2.0300e-003	2.0300e-003	0.0000	7.4939	7.4939	1.2400e-003	0.0000	7.5248
<b>Total</b>	<b>0.0784</b>	<b>0.0400</b>	<b>0.0552</b>	<b>9.0000e-005</b>		<b>2.0800e-003</b>	<b>2.0800e-003</b>		<b>2.0300e-003</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>7.4939</b>	<b>7.4939</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>7.5248</b>

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**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	1.1800e-003	8.8000e-004	0.0102	3.0000e-005	3.2100e-003	3.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.7909	2.7909	8.0000e-005	0.0000	2.7928
<b>Total</b>	<b>1.1800e-003</b>	<b>8.8000e-004</b>	<b>0.0102</b>	<b>3.0000e-005</b>	<b>3.2100e-003</b>	<b>3.0000e-005</b>	<b>3.2300e-003</b>	<b>8.5000e-004</b>	<b>2.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.7909</b>	<b>2.7909</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.7928</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	0.0735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9400e-003	0.0400	0.0552	9.0000e-005		2.0800e-003	2.0800e-003		2.0300e-003	2.0300e-003	0.0000	7.4939	7.4939	1.2400e-003	0.0000	7.5248
<b>Total</b>	<b>0.0784</b>	<b>0.0400</b>	<b>0.0552</b>	<b>9.0000e-005</b>		<b>2.0800e-003</b>	<b>2.0800e-003</b>		<b>2.0300e-003</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>7.4939</b>	<b>7.4939</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>7.5248</b>

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**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	1.1800e-003	8.8000e-004	0.0102	3.0000e-005	3.2100e-003	3.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.7909	2.7909	8.0000e-005	0.0000	2.7928
<b>Total</b>	<b>1.1800e-003</b>	<b>8.8000e-004</b>	<b>0.0102</b>	<b>3.0000e-005</b>	<b>3.2100e-003</b>	<b>3.0000e-005</b>	<b>3.2300e-003</b>	<b>8.5000e-004</b>	<b>2.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.7909</b>	<b>2.7909</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.7928</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0440	0.3548	0.5262	8.3000e-004		0.0172	0.0172		0.0168	0.0168	0.0000	71.6086	71.6086	0.0116	0.0000	71.8982
<b>Total</b>	<b>0.7459</b>	<b>0.3548</b>	<b>0.5262</b>	<b>8.3000e-004</b>		<b>0.0172</b>	<b>0.0172</b>		<b>0.0168</b>	<b>0.0168</b>	<b>0.0000</b>	<b>71.6086</b>	<b>71.6086</b>	<b>0.0116</b>	<b>0.0000</b>	<b>71.8982</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0106	7.6500e-003	0.0896	2.8000e-004	0.0306	2.4000e-004	0.0309	8.1300e-003	2.2000e-004	8.3500e-003	0.0000	25.6927	25.6927	6.6000e-004	0.0000	25.7093
<b>Total</b>	<b>0.0106</b>	<b>7.6500e-003</b>	<b>0.0896</b>	<b>2.8000e-004</b>	<b>0.0306</b>	<b>2.4000e-004</b>	<b>0.0309</b>	<b>8.1300e-003</b>	<b>2.2000e-004</b>	<b>8.3500e-003</b>	<b>0.0000</b>	<b>25.6927</b>	<b>25.6927</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>25.7093</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	0.7019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0440	0.3548	0.5262	8.3000e-004		0.0172	0.0172		0.0168	0.0168	0.0000	71.6086	71.6086	0.0116	0.0000	71.8982
<b>Total</b>	<b>0.7459</b>	<b>0.3548</b>	<b>0.5262</b>	<b>8.3000e-004</b>		<b>0.0172</b>	<b>0.0172</b>		<b>0.0168</b>	<b>0.0168</b>	<b>0.0000</b>	<b>71.6086</b>	<b>71.6086</b>	<b>0.0116</b>	<b>0.0000</b>	<b>71.8982</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive 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	0.0106	7.6500e-003	0.0896	2.8000e-004	0.0306	2.4000e-004	0.0309	8.1300e-003	2.2000e-004	8.3500e-003	0.0000	25.6927	25.6927	6.6000e-004	0.0000	25.7093
<b>Total</b>	<b>0.0106</b>	<b>7.6500e-003</b>	<b>0.0896</b>	<b>2.8000e-004</b>	<b>0.0306</b>	<b>2.4000e-004</b>	<b>0.0309</b>	<b>8.1300e-003</b>	<b>2.2000e-004</b>	<b>8.3500e-003</b>	<b>0.0000</b>	<b>25.6927</b>	<b>25.6927</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>25.7093</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1638	0.7482	2.2960	8.7500e-003	0.7478	6.6200e-003	0.7544	0.2004	6.1600e-003	0.2066	0.0000	808.4523	808.4523	0.0395	0.0000	809.4397
Unmitigated	0.1638	0.7482	2.2960	8.7500e-003	0.7478	6.6200e-003	0.7544	0.2004	6.1600e-003	0.2066	0.0000	808.4523	808.4523	0.0395	0.0000	809.4397

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	576.58	576.58	576.58	1,970,261	1,970,261
Total	576.58	576.58	576.58	1,970,261	1,970,261

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	951.5961	951.5961	0.0225	4.6500e-003	953.5437
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,001.3480	1,001.3480	0.0237	4.8900e-003	1,003.3973
NaturalGas Mitigated	0.0215	0.1836	0.0781	1.1700e-003		0.0149	0.0149		0.0149	0.0149	0.0000	212.6745	212.6745	4.0800e-003	3.9000e-003	213.9383
NaturalGas Unmitigated	0.0226	0.1928	0.0821	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.3004	223.3004	4.2800e-003	4.0900e-003	224.6273



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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	tons/yr										MT/yr					
Apartments Mid Rise	4.18449e+006	0.0226	0.1928	0.0821	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.3004	223.3004	4.2800e-003	4.0900e-003	224.6273
<b>Total</b>		<b>0.0226</b>	<b>0.1928</b>	<b>0.0821</b>	<b>1.2300e-003</b>		<b>0.0156</b>	<b>0.0156</b>		<b>0.0156</b>	<b>0.0156</b>	<b>0.0000</b>	<b>223.3004</b>	<b>223.3004</b>	<b>4.2800e-003</b>	<b>4.0900e-003</b>	<b>224.6273</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.98537e+006	0.0215	0.1836	0.0781	1.1700e-003		0.0149	0.0149		0.0149	0.0149	0.0000	212.6745	212.6745	4.0800e-003	3.9000e-003	213.9383
<b>Total</b>		<b>0.0215</b>	<b>0.1836</b>	<b>0.0781</b>	<b>1.1700e-003</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0149</b>	<b>0.0149</b>	<b>0.0000</b>	<b>212.6745</b>	<b>212.6745</b>	<b>4.0800e-003</b>	<b>3.9000e-003</b>	<b>213.9383</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.79788e+006	1,001.3480	0.0237	4.8900e-003	1,003.3973
<b>Total</b>		<b>1,001.3480</b>	<b>0.0237</b>	<b>4.8900e-003</b>	<b>1,003.3973</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.70855e+006	951.5961	0.0225	4.6500e-003	953.5437
<b>Total</b>		<b>951.5961</b>	<b>0.0225</b>	<b>4.6500e-003</b>	<b>953.5437</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	1.1141	0.0540	4.6830	2.5000e-004		0.0259	0.0259		0.0259	0.0259	0.0000	7.6479	7.6479	7.3500e-003	0.0000	7.8317
Unmitigated	1.2673	0.0767	6.0739	4.7900e-003		0.2528	0.2528		0.2528	0.2528	30.3833	7.6479	38.0311	0.1494	0.0000	41.7659

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0775					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8955					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1532	0.0227	1.3910	4.5400e-003		0.2269	0.2269		0.2269	0.2269	30.3833	0.0000	30.3833	0.1420	0.0000	33.9341
Landscaping	0.1411	0.0540	4.6830	2.5000e-004		0.0259	0.0259		0.0259	0.0259	0.0000	7.6479	7.6479	7.3500e-003	0.0000	7.8317
<b>Total</b>	<b>1.2672</b>	<b>0.0767</b>	<b>6.0739</b>	<b>4.7900e-003</b>		<b>0.2528</b>	<b>0.2528</b>		<b>0.2528</b>	<b>0.2528</b>	<b>30.3833</b>	<b>7.6479</b>	<b>38.0311</b>	<b>0.1494</b>	<b>0.0000</b>	<b>41.7659</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0775					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8955					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	0.1411	0.0540	4.6830	2.5000e-004		0.0259	0.0259		0.0259	0.0259	0.0000	7.6479	7.6479	7.3500e-003	0.0000	7.8317
<b>Total</b>	<b>1.1141</b>	<b>0.0540</b>	<b>4.6830</b>	<b>2.5000e-004</b>		<b>0.0259</b>	<b>0.0259</b>		<b>0.0259</b>	<b>0.0259</b>	<b>0.0000</b>	<b>7.6479</b>	<b>7.6479</b>	<b>7.3500e-003</b>	<b>0.0000</b>	<b>7.8317</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Use Water Efficient Landscaping

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	271.4368	0.7773	0.0195	296.6799
Unmitigated	339.2960	0.9717	0.0244	370.8499

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	29.5799 / 18.6482	339.2960	0.9717	0.0244	370.8499
<b>Total</b>		<b>339.2960</b>	<b>0.9717</b>	<b>0.0244</b>	<b>370.8499</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	23.6639 / 14.9186	271.4368	0.7773	0.0195	296.6799
<b>Total</b>		<b>271.4368</b>	<b>0.7773</b>	<b>0.0195</b>	<b>296.6799</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.5982	0.6263	0.0000	26.2565
Unmitigated	42.3926	2.5053	0.0000	105.0260

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	208.84	42.3926	2.5053	0.0000	105.0260
<b>Total</b>		<b>42.3926</b>	<b>2.5053</b>	<b>0.0000</b>	<b>105.0260</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	52.21	10.5982	0.6263	0.0000	26.2565
<b>Total</b>		<b>10.5982</b>	<b>0.6263</b>	<b>0.0000</b>	<b>26.2565</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0.5	12	1000	0.73	Diesel

**Boilers**

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

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.0394	0.1761	0.1004	1.9000e-004		5.7900e-003	5.7900e-003		5.7900e-003	5.7900e-003	0.0000	18.2783	18.2783	2.5600e-003	0.0000	18.3423
<b>Total</b>	<b>0.0394</b>	<b>0.1761</b>	<b>0.1004</b>	<b>1.9000e-004</b>		<b>5.7900e-003</b>	<b>5.7900e-003</b>		<b>5.7900e-003</b>	<b>5.7900e-003</b>	<b>0.0000</b>	<b>18.2783</b>	<b>18.2783</b>	<b>2.5600e-003</b>	<b>0.0000</b>	<b>18.3423</b>

**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	65.1360	0.0000	0.0000	65.1360

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	92	65.1360	0.0000	0.0000	65.1360
<b>Total</b>		<b>65.1360</b>	<b>0.0000</b>	<b>0.0000</b>	<b>65.1360</b>