

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

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Main Street Tower (Existing) - South Coast AQMD Air District, Annual

**Main Street Tower (Existing)**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	26.71	1000sqft	1.12	26,710.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2019
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics -

Land Use - Project Data based on Site Plans dated 12/12/18

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR EXISTING CONDITIONS SCENARIO

Off-road Equipment -

Vehicle Trips - Trip rates are based on 26,710 sf of actively used space, as mentioned in the Traffic Impact Assessment dated 6/4/19. Trip rates were adjusted to incorporate trip reductions (transit/walk adjustment and pass-by adjustment).

Energy Use - Assumes historical Title 24 for existing conditions scenario

Trips and VMT - IGNORE CONSTRUCTION

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	13355	14055
tblAreaCoating	Area_Nonresidential_Interior	40065	42165
tblLandUse	LotAcreage	0.61	1.12
tblSolidWaste	SolidWasteGenerationRate	28.05	4.20
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	VendorTripLength	6.90	1.00
tblTripsAndVMT	VendorTripNumber	4.00	1.00
tblTripsAndVMT	WorkerTripLength	14.70	1.00
tblTripsAndVMT	WorkerTripNumber	9.00	1.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	49.97	37.55
tblVehicleTrips	SU_TR	25.24	18.99
tblVehicleTrips	WD_TR	42.70	32.09
tblWater	IndoorWaterUseRate	1,978,477.05	296,290.09
tblWater	OutdoorWaterUseRate	1,212,614.97	181,597.15

## 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	4-9-2019	7-8-2019	0.1082	0.1082
2	7-9-2019	9-30-2019	0.0583	0.0583
		Highest	0.1082	0.1082

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	0.1096	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.1000e-004
Energy	2.6000e-004	2.3800e-003	2.0000e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5941	2.5941	5.0000e-005	5.0000e-005	2.6096
Mobile	0.3125	1.7470	4.2980	0.0139	1.0824	0.0161	1.0985	0.2901	0.0152	0.3053	0.0000	1,282.9916	1,282.9916	0.0687	0.0000	1,284.7095
Waste						0.0000	0.0000		0.0000	0.0000	0.8526	0.0000	0.8526	0.0504	0.0000	2.1122
Water						0.0000	0.0000		0.0000	0.0000	0.0940	0.0000	0.0940	9.6500e-003	2.3000e-004	0.4033
<b>Total</b>	<b>0.4224</b>	<b>1.7494</b>	<b>4.3003</b>	<b>0.0139</b>	<b>1.0824</b>	<b>0.0163</b>	<b>1.0987</b>	<b>0.2901</b>	<b>0.0154</b>	<b>0.3055</b>	<b>0.9466</b>	<b>1,285.5864</b>	<b>1,286.5330</b>	<b>0.1288</b>	<b>2.8000e-004</b>	<b>1,289.8353</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	0.1096	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.1000e-004
Energy	2.6000e-004	2.3800e-003	2.0000e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5941	2.5941	5.0000e-005	5.0000e-005	2.6096
Mobile	0.3125	1.7470	4.2980	0.0139	1.0824	0.0161	1.0985	0.2901	0.0152	0.3053	0.0000	1,282.9916	1,282.9916	0.0687	0.0000	1,284.7095
Waste						0.0000	0.0000		0.0000	0.0000	0.8526	0.0000	0.8526	0.0504	0.0000	2.1122
Water						0.0000	0.0000		0.0000	0.0000	0.0940	0.0000	0.0940	9.6500e-003	2.3000e-004	0.4033
<b>Total</b>	<b>0.4224</b>	<b>1.7494</b>	<b>4.3003</b>	<b>0.0139</b>	<b>1.0824</b>	<b>0.0163</b>	<b>1.0987</b>	<b>0.2901</b>	<b>0.0154</b>	<b>0.3055</b>	<b>0.9466</b>	<b>1,285.5864</b>	<b>1,286.5330</b>	<b>0.1288</b>	<b>2.8000e-004</b>	<b>1,289.8353</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	Building Construction	Building Construction	4/9/2019	8/26/2019	5	100	

**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
Building Construction	Cranes	1	4.00	231	0.29

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	1.00	1.00	0.00	1.00	1.00	1.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1502	0.0573	1.4000e-004		6.3700e-003	6.3700e-003		5.8600e-003	5.8600e-003	0.0000	12.9548	12.9548	4.1000e-003	0.0000	13.0573
<b>Total</b>	<b>0.0126</b>	<b>0.1502</b>	<b>0.0573</b>	<b>1.4000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>	<b>0.0000</b>	<b>12.9548</b>	<b>12.9548</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>13.0573</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	1.0000e-004	3.5300e-003	9.0000e-004	0.0000	5.0000e-005	1.0000e-005	5.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4140	0.4140	6.0000e-005	0.0000	0.4154
Worker	7.0000e-005	3.0000e-005	3.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0445	0.0445	0.0000	0.0000	0.0446
<b>Total</b>	<b>1.7000e-004</b>	<b>3.5600e-003</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.4585</b>	<b>0.4585</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.4600</b>

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**3.2 Building Construction - 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	0.0126	0.1502	0.0573	1.4000e-004		6.3700e-003	6.3700e-003		5.8600e-003	5.8600e-003	0.0000	12.9548	12.9548	4.1000e-003	0.0000	13.0573
<b>Total</b>	<b>0.0126</b>	<b>0.1502</b>	<b>0.0573</b>	<b>1.4000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>	<b>0.0000</b>	<b>12.9548</b>	<b>12.9548</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>13.0573</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	1.0000e-004	3.5300e-003	9.0000e-004	0.0000	5.0000e-005	1.0000e-005	5.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4140	0.4140	6.0000e-005	0.0000	0.4154
Worker	7.0000e-005	3.0000e-005	3.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0445	0.0445	0.0000	0.0000	0.0446
<b>Total</b>	<b>1.7000e-004</b>	<b>3.5600e-003</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.4585</b>	<b>0.4585</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.4600</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	0.3125	1.7470	4.2980	0.0139	1.0824	0.0161	1.0985	0.2901	0.0152	0.3053	0.0000	1,282.9916	1,282.9916	0.0687	0.0000	1,284.7095
Unmitigated	0.3125	1.7470	4.2980	0.0139	1.0824	0.0161	1.0985	0.2901	0.0152	0.3053	0.0000	1,282.9916	1,282.9916	0.0687	0.0000	1,284.7095

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	857.12	1,002.96	507.22	2,848,540	2,848,540
Total	857.12	1,002.96	507.22	2,848,540	2,848,540

**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
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991

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**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	2.6000e-004	2.3800e-003	2.0000e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5941	2.5941	5.0000e-005	5.0000e-005	2.6096
NaturalGas Unmitigated	2.6000e-004	2.3800e-003	2.0000e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5941	2.5941	5.0000e-005	5.0000e-005	2.6096

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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					
Regional Shopping Center	48612.2	2.6000e-004	2.3800e-003	2.0000e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5941	2.5941	5.0000e-005	5.0000e-005	2.6096
<b>Total</b>		<b>2.6000e-004</b>	<b>2.3800e-003</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.5941</b>	<b>2.5941</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.6096</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					
Regional Shopping Center	48612.2	2.6000e-004	2.3800e-003	2.0000e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5941	2.5941	5.0000e-005	5.0000e-005	2.6096
<b>Total</b>		<b>2.6000e-004</b>	<b>2.3800e-003</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.5941</b>	<b>2.5941</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.6096</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			
Regional Shopping Center	426292	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	426292	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	0.1096	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.1000e-004
Unmitigated	0.1096	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.1000e-004

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	0.0130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0965					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.1000e-004
<b>Total</b>	<b>0.1096</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.1000e-004</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	0.0130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0965					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.1000e-004
<b>Total</b>	<b>0.1096</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.1000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



Main Street Tower (Existing) - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0940	9.6500e-003	2.3000e-004	0.4033
Unmitigated	0.0940	9.6500e-003	2.3000e-004	0.4033

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	0.29629 / 0.181597	0.0940	9.6500e-003	2.3000e-004	0.4033
<b>Total</b>		<b>0.0940</b>	<b>9.6500e-003</b>	<b>2.3000e-004</b>	<b>0.4033</b>

Main Street Tower (Existing) - South Coast AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	0.29629 / 0.181597	0.0940	9.6500e-003	2.3000e-004	0.4033
<b>Total</b>		<b>0.0940</b>	<b>9.6500e-003</b>	<b>2.3000e-004</b>	<b>0.4033</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.8526	0.0504	0.0000	2.1122
Unmitigated	0.8526	0.0504	0.0000	2.1122

Main Street Tower (Existing) - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	4.2	0.8526	0.0504	0.0000	2.1122
<b>Total</b>		<b>0.8526</b>	<b>0.0504</b>	<b>0.0000</b>	<b>2.1122</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	4.2	0.8526	0.0504	0.0000	2.1122
<b>Total</b>		<b>0.8526</b>	<b>0.0504</b>	<b>0.0000</b>	<b>2.1122</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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Main Street Tower (Existing) - South Coast AQMD Air District, Annual

**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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Main Street Tower (Proposed) - South Coast AQMD Air District, Annual

**Main Street Tower (Proposed)**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	373.00	Space	1.12	143,058.00	0
Apartments High Rise	363.00	Dwelling Unit	0.00	330,935.00	944
Regional Shopping Center	12.50	1000sqft	0.00	12,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2026
<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**

Main Street Tower (Proposed) - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use - Project data per Site Plan dated 12/12/18

Construction Phase - Approximate 30-month construction timeline

Off-road Equipment - Equipment use on worst-case day

Off-road Equipment - Equipment use on worst-case day

Off-road Equipment - Equipment use on worst-case day

Off-road Equipment - Equipment use on worst-case day

Off-road Equipment - Equipment use on worst-case day

Trips and VMT - Assumes 14 cy haul truck capacity and approximately 30 miles to disposal site

Demolition - Approximately 3,780 tons of construction and demolition debris

Grading - Approximately 5,434 cy of soil for export and approximately 5,434 cy of soil for import for foundations

Vehicle Trips - Trip rates were adjusted to incorporate trip reductions (internal capture, transit/walk adjustment, and pass-by trips). Trip reductions per Traffic Impact Study dated 6/4/19

Woodstoves - No woodstoves or fireplaces proposed

Land Use Change -

Sequestration - 91 trees proposed on-site

Construction Off-road Equipment Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Mitigation - Mitigation scenario assumes LAMC and LA Green Building code compliance.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	96.00
tblConstructionPhase	NumDays	300.00	400.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	129.00

## Main Street Tower (Proposed) - South Coast AQMD Air District, Annual

tblConstructionPhase	NumDays	20.00	22.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	308.55	0.00
tblFireplaces	NumberNoFireplace	36.30	0.00
tblFireplaces	NumberWood	18.15	0.00
tblGrading	AcresOfGrading	322.50	75.00
tblGrading	MaterialExported	0.00	5,434.00
tblGrading	MaterialImported	0.00	5,434.00
tblLandUse	LandUseSquareFeet	149,200.00	143,058.00
tblLandUse	LandUseSquareFeet	363,000.00	330,935.00
tblLandUse	LotAcreage	3.36	1.12
tblLandUse	LotAcreage	5.85	0.00
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	Population	1,038.00	944.00
tblOffRoadEquipment	HorsePower	221.00	367.00
tblOffRoadEquipment	HorsePower	187.00	158.00
tblOffRoadEquipment	LoadFactor	0.50	0.48
tblOffRoadEquipment	LoadFactor	0.41	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblTripsAndVMT	HaulingTripNumber	1,359.00	1,553.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	50.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	54.00	50.00
tblVehicleTrips	ST_TR	4.98	2.32
tblVehicleTrips	ST_TR	49.97	33.81
tblVehicleTrips	SU_TR	3.65	1.70
tblVehicleTrips	SU_TR	25.24	17.07
tblVehicleTrips	WD_TR	4.20	1.96
tblVehicleTrips	WD_TR	42.70	28.88
tblWoodstoves	NumberCatalytic	18.15	0.00
tblWoodstoves	NumberNoncatalytic	18.15	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

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Main Street Tower (Proposed) - South Coast AQMD Air District, Annual

**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					
2023	0.2426	2.5603	2.0277	5.5800e-003	0.4756	0.0996	0.5751	0.2207	0.0918	0.3124	0.0000	497.2779	497.2779	0.1403	0.0000	500.7853
2024	0.4636	3.1732	4.3708	0.0114	0.5770	0.1093	0.6864	0.1530	0.1057	0.2587	0.0000	1,006.0636	1,006.0636	0.0872	0.0000	1,008.2431
2025	1.4037	2.0282	3.0525	7.4300e-003	0.3209	0.0691	0.3900	0.0859	0.0670	0.1529	0.0000	656.5791	656.5791	0.0561	0.0000	657.9803
2026	0.0122	3.6000e-003	6.4200e-003	1.0000e-005	3.6000e-004	1.6000e-004	5.1000e-004	9.0000e-005	1.6000e-004	2.5000e-004	0.0000	1.0375	1.0375	9.0000e-005	0.0000	1.0397
<b>Maximum</b>	<b>1.4037</b>	<b>3.1732</b>	<b>4.3708</b>	<b>0.0114</b>	<b>0.5770</b>	<b>0.1093</b>	<b>0.6864</b>	<b>0.2207</b>	<b>0.1057</b>	<b>0.3124</b>	<b>0.0000</b>	<b>1,006.0636</b>	<b>1,006.0636</b>	<b>0.1403</b>	<b>0.0000</b>	<b>1,008.2431</b>

Main Street Tower (Proposed) - South Coast AQMD Air District, Annual

**2.1 Overall Construction**

**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					
2023	0.2426	2.5603	2.0277	5.5800e-003	0.2274	0.0996	0.3270	0.1029	0.0918	0.1947	0.0000	497.2774	497.2774	0.1403	0.0000	500.7848
2024	0.4636	3.1732	4.3708	0.0114	0.5449	0.1093	0.6542	0.1452	0.1057	0.2509	0.0000	1,006.0631	1,006.0631	0.0872	0.0000	1,008.2425
2025	1.4037	2.0282	3.0525	7.4300e-003	0.3209	0.0691	0.3900	0.0859	0.0670	0.1529	0.0000	656.5787	656.5787	0.0561	0.0000	657.9800
2026	0.0122	3.6000e-003	6.4200e-003	1.0000e-005	3.6000e-004	1.6000e-004	5.1000e-004	9.0000e-005	1.6000e-004	2.5000e-004	0.0000	1.0375	1.0375	9.0000e-005	0.0000	1.0397
<b>Maximum</b>	<b>1.4037</b>	<b>3.1732</b>	<b>4.3708</b>	<b>0.0114</b>	<b>0.5449</b>	<b>0.1093</b>	<b>0.6542</b>	<b>0.1452</b>	<b>0.1057</b>	<b>0.2509</b>	<b>0.0000</b>	<b>1,006.0631</b>	<b>1,006.0631</b>	<b>0.1403</b>	<b>0.0000</b>	<b>1,008.2425</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>20.40</b>	<b>0.00</b>	<b>16.97</b>	<b>27.33</b>	<b>0.00</b>	<b>17.34</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	6-12-2023	9-11-2023	1.1735	1.1735
2	9-12-2023	12-11-2023	1.3374	1.3374
3	12-12-2023	3-11-2024	1.0250	1.0250
4	3-12-2024	6-11-2024	0.9009	0.9009
5	6-12-2024	9-11-2024	0.8998	0.8998
6	9-12-2024	12-11-2024	0.8941	0.8941
7	12-12-2024	3-11-2025	0.8502	0.8502
8	3-12-2025	6-11-2025	0.8549	0.8549

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9	6-12-2025	9-11-2025	0.6707	0.6707
10	9-12-2025	12-11-2025	1.0270	1.0270
11	12-12-2025	3-11-2026	0.2370	0.2370
		Highest	1.3374	1.3374

**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	1.4743	0.0431	3.7449	2.0000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	6.1245	6.1245	5.8800e-003	0.0000	6.2715
Energy	0.0182	0.1552	0.0665	9.9000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	1,541.1723	1,541.1723	0.0356	9.9500e-003	1,545.0263
Mobile	0.2377	1.2385	3.1180	0.0136	1.2782	9.6900e-003	1.2879	0.3424	9.0000e-003	0.3514	0.0000	1,262.9759	1,262.9759	0.0539	0.0000	1,264.3235
Stationary	4.9200e-003	0.0220	0.0126	2.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	2.2848	2.2848	3.2000e-004	0.0000	2.2928
Waste						0.0000	0.0000		0.0000	0.0000	36.5607	0.0000	36.5607	2.1607	0.0000	90.5776
Water						0.0000	0.0000		0.0000	0.0000	7.7971	274.0104	281.8075	0.8073	0.0203	308.0242
<b>Total</b>	<b>1.7351</b>	<b>1.4588</b>	<b>6.9419</b>	<b>0.0148</b>	<b>1.2782</b>	<b>0.0437</b>	<b>1.3219</b>	<b>0.3424</b>	<b>0.0430</b>	<b>0.3855</b>	<b>44.3578</b>	<b>3,086.5679</b>	<b>3,130.9257</b>	<b>3.0637</b>	<b>0.0302</b>	<b>3,216.5159</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	1.4743	0.0431	3.7449	2.0000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	6.1245	6.1245	5.8800e-003	0.0000	6.2715
Energy	0.0173	0.1478	0.0633	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	1,473.7848	1,473.7848	0.0341	9.5000e-003	1,477.4675
Mobile	0.2377	1.2385	3.1180	0.0136	1.2782	9.6900e-003	1.2879	0.3424	9.0000e-003	0.3514	0.0000	1,262.9759	1,262.9759	0.0539	0.0000	1,264.3235
Stationary	4.9200e-003	0.0220	0.0126	2.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	2.2848	2.2848	3.2000e-004	0.0000	2.2928
Waste						0.0000	0.0000		0.0000	0.0000	18.2804	0.0000	18.2804	1.0803	0.0000	45.2888
Water						0.0000	0.0000		0.0000	0.0000	6.2377	238.3632	244.6009	0.6463	0.0163	265.6135
<b>Total</b>	<b>1.7342</b>	<b>1.4514</b>	<b>6.9387</b>	<b>0.0148</b>	<b>1.2782</b>	<b>0.0431</b>	<b>1.3213</b>	<b>0.3424</b>	<b>0.0424</b>	<b>0.3849</b>	<b>24.5180</b>	<b>2,983.5332</b>	<b>3,008.0512</b>	<b>1.8208</b>	<b>0.0258</b>	<b>3,061.2576</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.05</b>	<b>0.51</b>	<b>0.05</b>	<b>0.34</b>	<b>0.00</b>	<b>1.37</b>	<b>0.05</b>	<b>0.00</b>	<b>1.39</b>	<b>0.16</b>	<b>44.73</b>	<b>3.34</b>	<b>3.92</b>	<b>40.57</b>	<b>14.60</b>	<b>4.83</b>

Main Street Tower (Proposed) - South Coast AQMD Air District, Annual

**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	0.0000
<b>Total</b>	<b>0.0000</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	6/12/2023	7/11/2023	5	22	
2	Grading	Grading	7/12/2023	1/8/2024	5	129	
3	Building Construction	Building Construction	1/9/2024	7/21/2025	5	400	
4	Paving	Paving	7/22/2025	8/20/2025	5	22	
5	Architectural Coating	Architectural Coating	8/21/2025	1/1/2026	5	96	

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 1.12**

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**Residential Indoor: 670,143; Residential Outdoor: 223,381; Non-Residential Indoor: 18,750; Non-Residential Outdoor: 6,250; Striped Parking Area: 8,583 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Graders	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	367	0.48
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1		9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Architectural Coating	Air Compressors	5	6.00	78	0.48
Architectural Coating	Forklifts	1	8.00	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	7	10.00	0.00	374.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	10.00	0.00	1,553.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	325.00	64.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	7	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 - 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					
Fugitive Dust					0.0404	0.0000	0.0404	6.1200e-003	0.0000	6.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2162	0.2466	4.3000e-004		0.0106	0.0106		9.8200e-003	9.8200e-003	0.0000	37.2040	37.2040	0.0104	0.0000	37.4643
<b>Total</b>	<b>0.0236</b>	<b>0.2162</b>	<b>0.2466</b>	<b>4.3000e-004</b>	<b>0.0404</b>	<b>0.0106</b>	<b>0.0510</b>	<b>6.1200e-003</b>	<b>9.8200e-003</b>	<b>0.0159</b>	<b>0.0000</b>	<b>37.2040</b>	<b>37.2040</b>	<b>0.0104</b>	<b>0.0000</b>	<b>37.4643</b>



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**3.2 Demolition - 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	8.6000e-004	0.0289	9.2300e-003	1.3000e-004	3.2200e-003	5.0000e-005	3.2700e-003	8.8000e-004	5.0000e-005	9.3000e-004	0.0000	13.2511	13.2511	8.6000e-004	0.0000	13.2726
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	4.1000e-004	2.8000e-004	3.2600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9757	0.9757	2.0000e-005	0.0000	0.9763
<b>Total</b>	<b>1.2700e-003</b>	<b>0.0292</b>	<b>0.0125</b>	<b>1.4000e-004</b>	<b>4.4300e-003</b>	<b>6.0000e-005</b>	<b>4.4900e-003</b>	<b>1.2000e-003</b>	<b>6.0000e-005</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>14.2268</b>	<b>14.2268</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>14.2489</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					0.0182	0.0000	0.0182	2.7600e-003	0.0000	2.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2162	0.2466	4.3000e-004		0.0106	0.0106		9.8200e-003	9.8200e-003	0.0000	37.2039	37.2039	0.0104	0.0000	37.4642
<b>Total</b>	<b>0.0236</b>	<b>0.2162</b>	<b>0.2466</b>	<b>4.3000e-004</b>	<b>0.0182</b>	<b>0.0106</b>	<b>0.0288</b>	<b>2.7600e-003</b>	<b>9.8200e-003</b>	<b>0.0126</b>	<b>0.0000</b>	<b>37.2039</b>	<b>37.2039</b>	<b>0.0104</b>	<b>0.0000</b>	<b>37.4642</b>

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**3.2 Demolition - 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	8.6000e-004	0.0289	9.2300e-003	1.3000e-004	3.2200e-003	5.0000e-005	3.2700e-003	8.8000e-004	5.0000e-005	9.3000e-004	0.0000	13.2511	13.2511	8.6000e-004	0.0000	13.2726
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	4.1000e-004	2.8000e-004	3.2600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9757	0.9757	2.0000e-005	0.0000	0.9763
<b>Total</b>	<b>1.2700e-003</b>	<b>0.0292</b>	<b>0.0125</b>	<b>1.4000e-004</b>	<b>4.4300e-003</b>	<b>6.0000e-005</b>	<b>4.4900e-003</b>	<b>1.2000e-003</b>	<b>6.0000e-005</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>14.2268</b>	<b>14.2268</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>14.2489</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4107	0.0000	0.4107	0.2080	0.0000	0.2080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2120	2.1990	1.7137	4.4200e-003		0.0887	0.0887		0.0816	0.0816	0.0000	387.9272	387.9272	0.1255	0.0000	391.0638
<b>Total</b>	<b>0.2120</b>	<b>2.1990</b>	<b>1.7137</b>	<b>4.4200e-003</b>	<b>0.4107</b>	<b>0.0887</b>	<b>0.4995</b>	<b>0.2080</b>	<b>0.0816</b>	<b>0.2896</b>	<b>0.0000</b>	<b>387.9272</b>	<b>387.9272</b>	<b>0.1255</b>	<b>0.0000</b>	<b>391.0638</b>

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**3.3 Grading - 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	3.4200e-003	0.1144	0.0365	5.3000e-004	0.0132	2.1000e-004	0.0134	3.6100e-003	2.0000e-004	3.8100e-003	0.0000	52.4646	52.4646	3.4100e-003	0.0000	52.5499
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	2.2700e-003	1.5500e-003	0.0183	6.0000e-005	6.7500e-003	5.0000e-005	6.8000e-003	1.7900e-003	4.0000e-005	1.8400e-003	0.0000	5.4553	5.4553	1.3000e-004	0.0000	5.4585
<b>Total</b>	<b>5.6900e-003</b>	<b>0.1160</b>	<b>0.0548</b>	<b>5.9000e-004</b>	<b>0.0200</b>	<b>2.6000e-004</b>	<b>0.0202</b>	<b>5.4000e-003</b>	<b>2.4000e-004</b>	<b>5.6500e-003</b>	<b>0.0000</b>	<b>57.9199</b>	<b>57.9199</b>	<b>3.5400e-003</b>	<b>0.0000</b>	<b>58.0083</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					0.1848	0.0000	0.1848	0.0936	0.0000	0.0936	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2120	2.1990	1.7137	4.4200e-003		0.0887	0.0887		0.0816	0.0816	0.0000	387.9267	387.9267	0.1255	0.0000	391.0633
<b>Total</b>	<b>0.2120</b>	<b>2.1990</b>	<b>1.7137</b>	<b>4.4200e-003</b>	<b>0.1848</b>	<b>0.0887</b>	<b>0.2736</b>	<b>0.0936</b>	<b>0.0816</b>	<b>0.1752</b>	<b>0.0000</b>	<b>387.9267</b>	<b>387.9267</b>	<b>0.1255</b>	<b>0.0000</b>	<b>391.0633</b>

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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4200e-003	0.1144	0.0365	5.3000e-004	0.0132	2.1000e-004	0.0134	3.6100e-003	2.0000e-004	3.8100e-003	0.0000	52.4646	52.4646	3.4100e-003	0.0000	52.5499
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	2.2700e-003	1.5500e-003	0.0183	6.0000e-005	6.7500e-003	5.0000e-005	6.8000e-003	1.7900e-003	4.0000e-005	1.8400e-003	0.0000	5.4553	5.4553	1.3000e-004	0.0000	5.4585
<b>Total</b>	<b>5.6900e-003</b>	<b>0.1160</b>	<b>0.0548</b>	<b>5.9000e-004</b>	<b>0.0200</b>	<b>2.6000e-004</b>	<b>0.0202</b>	<b>5.4000e-003</b>	<b>2.4000e-004</b>	<b>5.6500e-003</b>	<b>0.0000</b>	<b>57.9199</b>	<b>57.9199</b>	<b>3.5400e-003</b>	<b>0.0000</b>	<b>58.0083</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0585	0.0000	0.0585	0.0143	0.0000	0.0143	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.1009	0.0826	2.2000e-004		4.0700e-003	4.0700e-003		3.7500e-003	3.7500e-003	0.0000	18.9219	18.9219	6.1200e-003	0.0000	19.0748
<b>Total</b>	<b>0.0101</b>	<b>0.1009</b>	<b>0.0826</b>	<b>2.2000e-004</b>	<b>0.0585</b>	<b>4.0700e-003</b>	<b>0.0625</b>	<b>0.0143</b>	<b>3.7500e-003</b>	<b>0.0181</b>	<b>0.0000</b>	<b>18.9219</b>	<b>18.9219</b>	<b>6.1200e-003</b>	<b>0.0000</b>	<b>19.0748</b>

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**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	5.5500e-003	1.8100e-003	3.0000e-005	0.0102	1.0000e-005	0.0102	2.5200e-003	1.0000e-005	2.5300e-003	0.0000	2.5500	2.5500	1.7000e-004	0.0000	2.5542
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-004	7.0000e-005	8.3000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2574	0.2574	1.0000e-005	0.0000	0.2575
<b>Total</b>	<b>2.7000e-004</b>	<b>5.6200e-003</b>	<b>2.6400e-003</b>	<b>3.0000e-005</b>	<b>0.0105</b>	<b>1.0000e-005</b>	<b>0.0105</b>	<b>2.6100e-003</b>	<b>1.0000e-005</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>2.8074</b>	<b>2.8074</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.8117</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					0.0263	0.0000	0.0263	6.4400e-003	0.0000	6.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.1009	0.0826	2.2000e-004		4.0700e-003	4.0700e-003		3.7500e-003	3.7500e-003	0.0000	18.9218	18.9218	6.1200e-003	0.0000	19.0748
<b>Total</b>	<b>0.0101</b>	<b>0.1009</b>	<b>0.0826</b>	<b>2.2000e-004</b>	<b>0.0263</b>	<b>4.0700e-003</b>	<b>0.0304</b>	<b>6.4400e-003</b>	<b>3.7500e-003</b>	<b>0.0102</b>	<b>0.0000</b>	<b>18.9218</b>	<b>18.9218</b>	<b>6.1200e-003</b>	<b>0.0000</b>	<b>19.0748</b>

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**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	5.5500e-003	1.8100e-003	3.0000e-005	0.0102	1.0000e-005	0.0102	2.5200e-003	1.0000e-005	2.5300e-003	0.0000	2.5500	2.5500	1.7000e-004	0.0000	2.5542
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-004	7.0000e-005	8.3000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2574	0.2574	1.0000e-005	0.0000	0.2575
<b>Total</b>	<b>2.7000e-004</b>	<b>5.6200e-003</b>	<b>2.6400e-003</b>	<b>3.0000e-005</b>	<b>0.0105</b>	<b>1.0000e-005</b>	<b>0.0105</b>	<b>2.6100e-003</b>	<b>1.0000e-005</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>2.8074</b>	<b>2.8074</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.8117</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2920	2.4070	2.9731	5.2000e-003		0.1014	0.1014		0.0984	0.0984	0.0000	435.8826	435.8826	0.0625	0.0000	437.4459
<b>Total</b>	<b>0.2920</b>	<b>2.4070</b>	<b>2.9731</b>	<b>5.2000e-003</b>		<b>0.1014</b>	<b>0.1014</b>		<b>0.0984</b>	<b>0.0984</b>	<b>0.0000</b>	<b>435.8826</b>	<b>435.8826</b>	<b>0.0625</b>	<b>0.0000</b>	<b>437.4459</b>

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**3.4 Building Construction - 2024**

**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	0.0160	0.5642	0.1612	1.9700e-003	0.0516	6.4000e-004	0.0523	0.0149	6.1000e-004	0.0155	0.0000	191.5890	191.5890	0.0104	0.0000	191.8493
Worker	0.1453	0.0954	1.1512	3.9400e-003	0.4564	3.2000e-003	0.4596	0.1212	2.9400e-003	0.1242	0.0000	356.8627	356.8627	7.9500e-003	0.0000	357.0614
<b>Total</b>	<b>0.1612</b>	<b>0.6596</b>	<b>1.3124</b>	<b>5.9100e-003</b>	<b>0.5081</b>	<b>3.8400e-003</b>	<b>0.5119</b>	<b>0.1361</b>	<b>3.5500e-003</b>	<b>0.1397</b>	<b>0.0000</b>	<b>548.4518</b>	<b>548.4518</b>	<b>0.0184</b>	<b>0.0000</b>	<b>548.9107</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	0.2920	2.4070	2.9731	5.2000e-003		0.1014	0.1014		0.0984	0.0984	0.0000	435.8821	435.8821	0.0625	0.0000	437.4453
<b>Total</b>	<b>0.2920</b>	<b>2.4070</b>	<b>2.9731</b>	<b>5.2000e-003</b>		<b>0.1014</b>	<b>0.1014</b>		<b>0.0984</b>	<b>0.0984</b>	<b>0.0000</b>	<b>435.8821</b>	<b>435.8821</b>	<b>0.0625</b>	<b>0.0000</b>	<b>437.4453</b>

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**3.4 Building Construction - 2024**

**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	0.0160	0.5642	0.1612	1.9700e-003	0.0516	6.4000e-004	0.0523	0.0149	6.1000e-004	0.0155	0.0000	191.5890	191.5890	0.0104	0.0000	191.8493
Worker	0.1453	0.0954	1.1512	3.9400e-003	0.4564	3.2000e-003	0.4596	0.1212	2.9400e-003	0.1242	0.0000	356.8627	356.8627	7.9500e-003	0.0000	357.0614
<b>Total</b>	<b>0.1612</b>	<b>0.6596</b>	<b>1.3124</b>	<b>5.9100e-003</b>	<b>0.5081</b>	<b>3.8400e-003</b>	<b>0.5119</b>	<b>0.1361</b>	<b>3.5500e-003</b>	<b>0.1397</b>	<b>0.0000</b>	<b>548.4518</b>	<b>548.4518</b>	<b>0.0184</b>	<b>0.0000</b>	<b>548.9107</b>

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1537	1.2751	1.6651	2.9300e-003		0.0497	0.0497		0.0482	0.0482	0.0000	245.2016	245.2016	0.0345	0.0000	246.0631
<b>Total</b>	<b>0.1537</b>	<b>1.2751</b>	<b>1.6651</b>	<b>2.9300e-003</b>		<b>0.0497</b>	<b>0.0497</b>		<b>0.0482</b>	<b>0.0482</b>	<b>0.0000</b>	<b>245.2016</b>	<b>245.2016</b>	<b>0.0345</b>	<b>0.0000</b>	<b>246.0631</b>



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**3.4 Building Construction - 2025**

**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	8.7500e-003	0.3145	0.0883	1.1000e-003	0.0291	3.5000e-004	0.0294	8.3800e-003	3.4000e-004	8.7200e-003	0.0000	107.1638	107.1638	5.7600e-003	0.0000	107.3078
Worker	0.0777	0.0491	0.6014	2.1300e-003	0.2567	1.7600e-003	0.2585	0.0682	1.6200e-003	0.0698	0.0000	192.8280	192.8280	4.0700e-003	0.0000	192.9298
<b>Total</b>	<b>0.0865</b>	<b>0.3636</b>	<b>0.6896</b>	<b>3.2300e-003</b>	<b>0.2858</b>	<b>2.1100e-003</b>	<b>0.2879</b>	<b>0.0766</b>	<b>1.9600e-003</b>	<b>0.0785</b>	<b>0.0000</b>	<b>299.9918</b>	<b>299.9918</b>	<b>9.8300e-003</b>	<b>0.0000</b>	<b>300.2376</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	0.1537	1.2751	1.6651	2.9300e-003		0.0497	0.0497		0.0482	0.0482	0.0000	245.2013	245.2013	0.0345	0.0000	246.0629
<b>Total</b>	<b>0.1537</b>	<b>1.2751</b>	<b>1.6651</b>	<b>2.9300e-003</b>		<b>0.0497</b>	<b>0.0497</b>		<b>0.0482</b>	<b>0.0482</b>	<b>0.0000</b>	<b>245.2013</b>	<b>245.2013</b>	<b>0.0345</b>	<b>0.0000</b>	<b>246.0629</b>

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**3.4 Building Construction - 2025**

**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	8.7500e-003	0.3145	0.0883	1.1000e-003	0.0291	3.5000e-004	0.0294	8.3800e-003	3.4000e-004	8.7200e-003	0.0000	107.1638	107.1638	5.7600e-003	0.0000	107.3078
Worker	0.0777	0.0491	0.6014	2.1300e-003	0.2567	1.7600e-003	0.2585	0.0682	1.6200e-003	0.0698	0.0000	192.8280	192.8280	4.0700e-003	0.0000	192.9298
<b>Total</b>	<b>0.0865</b>	<b>0.3636</b>	<b>0.6896</b>	<b>3.2300e-003</b>	<b>0.2858</b>	<b>2.1100e-003</b>	<b>0.2879</b>	<b>0.0766</b>	<b>1.9600e-003</b>	<b>0.0785</b>	<b>0.0000</b>	<b>299.9918</b>	<b>299.9918</b>	<b>9.8300e-003</b>	<b>0.0000</b>	<b>300.2376</b>

**3.5 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.0300e-003	0.0472	0.0802	1.3000e-004		2.3000e-003	2.3000e-003		2.1200e-003	2.1200e-003	0.0000	11.0106	11.0106	3.5600e-003	0.0000	11.0996
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>5.0300e-003</b>	<b>0.0472</b>	<b>0.0802</b>	<b>1.3000e-004</b>		<b>2.3000e-003</b>	<b>2.3000e-003</b>		<b>2.1200e-003</b>	<b>2.1200e-003</b>	<b>0.0000</b>	<b>11.0106</b>	<b>11.0106</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>11.0996</b>

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**3.5 Paving - 2025**

**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	3.7000e-004	2.3000e-004	2.8300e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9065	0.9065	2.0000e-005	0.0000	0.9069
<b>Total</b>	<b>3.7000e-004</b>	<b>2.3000e-004</b>	<b>2.8300e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9065</b>	<b>0.9065</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9069</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	5.0300e-003	0.0472	0.0802	1.3000e-004		2.3000e-003	2.3000e-003		2.1200e-003	2.1200e-003	0.0000	11.0106	11.0106	3.5600e-003	0.0000	11.0996
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>5.0300e-003</b>	<b>0.0472</b>	<b>0.0802</b>	<b>1.3000e-004</b>		<b>2.3000e-003</b>	<b>2.3000e-003</b>		<b>2.1200e-003</b>	<b>2.1200e-003</b>	<b>0.0000</b>	<b>11.0106</b>	<b>11.0106</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>11.0996</b>

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**3.5 Paving - 2025**

**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	3.7000e-004	2.3000e-004	2.8300e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9065	0.9065	2.0000e-005	0.0000	0.9069
<b>Total</b>	<b>3.7000e-004</b>	<b>2.3000e-004</b>	<b>2.8300e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9065</b>	<b>0.9065</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9069</b>

**3.6 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1016					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0463	0.3357	0.5354	8.6000e-004		0.0147	0.0147		0.0145	0.0145	0.0000	74.0261	74.0261	7.6400e-003	0.0000	74.2170
<b>Total</b>	<b>1.1479</b>	<b>0.3357</b>	<b>0.5354</b>	<b>8.6000e-004</b>		<b>0.0147</b>	<b>0.0147</b>		<b>0.0145</b>	<b>0.0145</b>	<b>0.0000</b>	<b>74.0261</b>	<b>74.0261</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>74.2170</b>

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**3.6 Architectural Coating - 2025**

**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	0.0103	6.4700e-003	0.0794	2.8000e-004	0.0339	2.3000e-004	0.0341	9.0000e-003	2.1000e-004	9.2100e-003	0.0000	25.4426	25.4426	5.4000e-004	0.0000	25.4560
<b>Total</b>	<b>0.0103</b>	<b>6.4700e-003</b>	<b>0.0794</b>	<b>2.8000e-004</b>	<b>0.0339</b>	<b>2.3000e-004</b>	<b>0.0341</b>	<b>9.0000e-003</b>	<b>2.1000e-004</b>	<b>9.2100e-003</b>	<b>0.0000</b>	<b>25.4426</b>	<b>25.4426</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>25.4560</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	1.1016					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0463	0.3357	0.5354	8.6000e-004		0.0147	0.0147		0.0145	0.0145	0.0000	74.0260	74.0260	7.6400e-003	0.0000	74.2170
<b>Total</b>	<b>1.1479</b>	<b>0.3357</b>	<b>0.5354</b>	<b>8.6000e-004</b>		<b>0.0147</b>	<b>0.0147</b>		<b>0.0145</b>	<b>0.0145</b>	<b>0.0000</b>	<b>74.0260</b>	<b>74.0260</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>74.2170</b>

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**3.6 Architectural Coating - 2025**

**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	0.0103	6.4700e-003	0.0794	2.8000e-004	0.0339	2.3000e-004	0.0341	9.0000e-003	2.1000e-004	9.2100e-003	0.0000	25.4426	25.4426	5.4000e-004	0.0000	25.4560
<b>Total</b>	<b>0.0103</b>	<b>6.4700e-003</b>	<b>0.0794</b>	<b>2.8000e-004</b>	<b>0.0339</b>	<b>2.3000e-004</b>	<b>0.0341</b>	<b>9.0000e-003</b>	<b>2.1000e-004</b>	<b>9.2100e-003</b>	<b>0.0000</b>	<b>25.4426</b>	<b>25.4426</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>25.4560</b>

**3.6 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-004	3.5300e-003	5.6400e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.5000e-004	1.5000e-004	0.0000	0.7792	0.7792	8.0000e-005	0.0000	0.7812
<b>Total</b>	<b>0.0121</b>	<b>3.5300e-003</b>	<b>5.6400e-003</b>	<b>1.0000e-005</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.7792</b>	<b>0.7792</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.7812</b>

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**3.6 Architectural Coating - 2026**

**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-004	6.0000e-005	7.8000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2583	0.2583	1.0000e-005	0.0000	0.2585
<b>Total</b>	<b>1.0000e-004</b>	<b>6.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2583</b>	<b>0.2583</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2585</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	0.0116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-004	3.5300e-003	5.6400e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.5000e-004	1.5000e-004	0.0000	0.7792	0.7792	8.0000e-005	0.0000	0.7812
<b>Total</b>	<b>0.0121</b>	<b>3.5300e-003</b>	<b>5.6400e-003</b>	<b>1.0000e-005</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.7792</b>	<b>0.7792</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.7812</b>

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**3.6 Architectural Coating - 2026**

**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-004	6.0000e-005	7.8000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2583	0.2583	1.0000e-005	0.0000	0.2585
<b>Total</b>	<b>1.0000e-004</b>	<b>6.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2583</b>	<b>0.2583</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2585</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	0.2377	1.2385	3.1180	0.0136	1.2782	9.6900e-003	1.2879	0.3424	9.0000e-003	0.3514	0.0000	1,262.9759	1,262.9759	0.0539	0.0000	1,264.3235
Unmitigated	0.2377	1.2385	3.1180	0.0136	1.2782	9.6900e-003	1.2879	0.3424	9.0000e-003	0.3514	0.0000	1,262.9759	1,262.9759	0.0539	0.0000	1,264.3235

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	711.48	842.16	617.10	2,758,505	2,758,505
Enclosed Parking with Elevator	0.00	0.00	0.00		
Regional Shopping Center	361.00	422.63	213.38	606,202	606,202
Total	1,072.48	1,264.79	830.48	3,364,707	3,364,707

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 High Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	50	0	50

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.551582	0.041972	0.204917	0.113538	0.013798	0.005777	0.022002	0.036198	0.002156	0.001623	0.004914	0.000716	0.000809
Enclosed Parking with Elevator	0.551582	0.041972	0.204917	0.113538	0.013798	0.005777	0.022002	0.036198	0.002156	0.001623	0.004914	0.000716	0.000809
Regional Shopping Center	0.551582	0.041972	0.204917	0.113538	0.013798	0.005777	0.022002	0.036198	0.002156	0.001623	0.004914	0.000716	0.000809

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

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	1,302.7216	1,302.7216	0.0308	6.3700e-003	1,305.3878
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,361.5364	1,361.5364	0.0322	6.6500e-003	1,364.3230
NaturalGas Mitigated	0.0173	0.1478	0.0633	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	171.0631	171.0631	3.2800e-003	3.1400e-003	172.0797
NaturalGas Unmitigated	0.0182	0.1552	0.0665	9.9000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	179.6359	179.6359	3.4400e-003	3.2900e-003	180.7034

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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 High Rise	3.34575e+006	0.0180	0.1542	0.0656	9.8000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	178.5419	178.5419	3.4200e-003	3.2700e-003	179.6029
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	20500	1.1000e-004	1.0000e-003	8.4000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0940	1.0940	2.0000e-005	2.0000e-005	1.1005
<b>Total</b>		<b>0.0182</b>	<b>0.1552</b>	<b>0.0664</b>	<b>9.9000e-004</b>		<b>0.0125</b>	<b>0.0125</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>179.6359</b>	<b>179.6359</b>	<b>3.4400e-003</b>	<b>3.2900e-003</b>	<b>180.7034</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 High Rise	3.18654e+006	0.0172	0.1468	0.0625	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0459	170.0459	3.2600e-003	3.1200e-003	171.0564
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	19062.5	1.0000e-004	9.3000e-004	7.8000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0173	1.0173	2.0000e-005	2.0000e-005	1.0233
<b>Total</b>		<b>0.0173</b>	<b>0.1478</b>	<b>0.0633</b>	<b>9.5000e-004</b>		<b>0.0119</b>	<b>0.0119</b>		<b>0.0119</b>	<b>0.0119</b>	<b>0.0000</b>	<b>171.0631</b>	<b>171.0631</b>	<b>3.2800e-003</b>	<b>3.1400e-003</b>	<b>172.0797</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 High Rise	1.43751e+006	800.6372	0.0189	3.9100e-003	802.2758
Enclosed Parking with Elevator	838320	466.9119	0.0110	2.2800e-003	467.8675
Regional Shopping Center	168750	93.9873	2.2200e-003	4.6000e-004	94.1796
<b>Total</b>		<b>1,361.5364</b>	<b>0.0322</b>	<b>6.6500e-003</b>	<b>1,364.3230</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.393e+006	775.8479	0.0183	3.7900e-003	777.4358
Enclosed Parking with Elevator	782241	435.6782	0.0103	2.1300e-003	436.5699
Regional Shopping Center	163738	91.1955	2.1500e-003	4.5000e-004	91.3821
<b>Total</b>		<b>1,302.7216</b>	<b>0.0308</b>	<b>6.3700e-003</b>	<b>1,305.3878</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	1.4743	0.0431	3.7449	2.0000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	6.1245	6.1245	5.8800e-003	0.0000	6.2715
Unmitigated	1.4743	0.0431	3.7449	2.0000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	6.1245	6.1245	5.8800e-003	0.0000	6.2715

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**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	0.1113					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					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	0.1127	0.0431	3.7449	2.0000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	6.1245	6.1245	5.8800e-003	0.0000	6.2715
<b>Total</b>	<b>1.4743</b>	<b>0.0431</b>	<b>3.7449</b>	<b>2.0000e-004</b>		<b>0.0208</b>	<b>0.0208</b>		<b>0.0208</b>	<b>0.0208</b>	<b>0.0000</b>	<b>6.1245</b>	<b>6.1245</b>	<b>5.8800e-003</b>	<b>0.0000</b>	<b>6.2715</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	0.1113					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					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	0.1127	0.0431	3.7449	2.0000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	6.1245	6.1245	5.8800e-003	0.0000	6.2715
<b>Total</b>	<b>1.4743</b>	<b>0.0431</b>	<b>3.7449</b>	<b>2.0000e-004</b>		<b>0.0208</b>	<b>0.0208</b>		<b>0.0208</b>	<b>0.0208</b>	<b>0.0000</b>	<b>6.1245</b>	<b>6.1245</b>	<b>5.8800e-003</b>	<b>0.0000</b>	<b>6.2715</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	244.6009	0.6463	0.0163	265.6135
Unmitigated	281.8075	0.8073	0.0203	308.0242

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	23.6509 / 14.9104	271.2873	0.7769	0.0195	296.5166
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.925907 / 0.567491	10.5202	0.0304	7.6000e-004	11.5076
<b>Total</b>		<b>281.8075</b>	<b>0.8073</b>	<b>0.0203</b>	<b>308.0242</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 High Rise	18.9207 / 14.9104	235.4825	0.6220	0.0157	255.7036
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.740725 / 0.567491	9.1184	0.0244	6.1000e-004	9.9099
<b>Total</b>		<b>244.6009</b>	<b>0.6463</b>	<b>0.0163</b>	<b>265.6135</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	18.2804	1.0803	0.0000	45.2888
Unmitigated	36.5607	2.1607	0.0000	90.5776

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	166.98	33.8954	2.0032	0.0000	83.9745
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	13.13	2.6653	0.1575	0.0000	6.6031
<b>Total</b>		<b>36.5607</b>	<b>2.1607</b>	<b>0.0000</b>	<b>90.5776</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 High Rise	83.49	16.9477	1.0016	0.0000	41.9873
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.565	1.3326	0.0788	0.0000	3.3016
<b>Total</b>		<b>18.2804</b>	<b>1.0803</b>	<b>0.0000</b>	<b>45.2888</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	6	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**

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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)	4.9200e-003	0.0220	0.0126	2.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	2.2848	2.2848	3.2000e-004	0.0000	2.2928
<b>Total</b>	<b>4.9200e-003</b>	<b>0.0220</b>	<b>0.0126</b>	<b>2.0000e-005</b>		<b>7.2000e-004</b>	<b>7.2000e-004</b>		<b>7.2000e-004</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.2848</b>	<b>2.2848</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>2.2928</b>

**11.0 Vegetation**

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

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
	91	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>