

# GHG TECHNICAL MEMORANDUM

**To:** Mr. Addison Garza  
**From:** Sharon Toland  
**RE:** Impacts to Greenhouse Gas Emissions from the Aspire Project in Escondido, California  
**Date:** August 1, 2019

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This memorandum presents the results of Harris & Associates' analysis of the potential impacts to greenhouse gas (GHG) emissions from construction and operation of the proposed Aspire Project (project) in the City of Escondido (City). The project would consist of the construction of a six-story mixed-use building that includes 131 residential units including 9 units reserved for Very Low Income Households, 229 parking spaces, common areas and amenities, and approximately 4,289 square feet (sf) of ground floor commercial space situated on property in the Downtown Specific Planning Area on 1.04 gross acres (1.03 net acres). The site currently consists of the existing City Public Parking Lot #1 with some landscaped planters and lighting.

The project site is located in the developed and urban area of downtown Escondido. According to the Downtown Specific Plan, the project site lies within the Historic Downtown District. Immediately surrounding land uses to the project site consists of primarily commercial and commercial uses. Directly north of the project site lies West Valley Parkway, a major arterial road that serves the City of Escondido, followed by Escondido City Hall and the California Center for the Arts, Escondido, on the north side of the street. A bank with surface parking lot surrounding the building borders the project site to the east and a one-way alley that services commercial businesses fronting Grand Avenue lies directly south. These commercial uses include restaurants, a salon, and bridal shop. Maple Street Plaza, a pedestrian plaza with a fountain, landscaping, lighting, benching, and trellises, borders the site to the west.

Construction of the proposed project is anticipated to begin in late 2019 and take approximately 20 months to complete. Grading and site preparation would be accomplished first; construction of the buildings, including architectural coating, would occur subsequently. Standard equipment expected to be used on the site would include a bulldozer, front-end loader, backhoe, grader, forklift, air compressor, welders, and generator. The project would involve 19,000 cubic yards (cy) of cut to include the demolition of the existing parking lot and the constructing of the underground parking structure. The total export from the project site would be disposed of at a permitted facility.

## Existing Conditions

The project site is currently an asphalt public surface parking lot with some landscaped planters and lighting. As it currently exists, the project site is not a significant source of GHG emissions.

## Significance Thresholds

The GHG emissions screening threshold was developed as part of the City of Escondido Climate Action Plan (E-CAP) development review process. The E-CAP serves as an implementation tool of the City's General Plan to

guide development in the City to meet the objectives of conserving resources and reducing GHG emissions. Following the State's adopted AB 32 GHG reduction target, the E-CAP sets a goal to reduce its GHG emissions back to 1990 levels by the year 2020. This target was calculated as a 15-percent decrease from 2005 levels, as recommended in the AB 32 Scoping Plan. In order to reduce its GHG emissions by 15 percent from 2005 levels by 2020, the City estimated the community-wide emissions for the year 2020, based on population and housing growth projections associated with the assumptions used in the City's General Plan Update, which was completed in 2012. Through this forecast, the City was able to determine the amount of GHG emissions that would need to be reduced in order for the city to reach its reduction target by 2020.

The City of Escondido Greenhouse Gas Emissions Adopted CEQA Thresholds and Screening Tables document (City 2013) identifies a threshold level of 2,500 metric tons (MT) of carbon dioxide equivalents (CO<sub>2</sub>e) per year to identify individual land use development projects that may be required to quantify and mitigate project emissions. This threshold level was based on the 90th percentile capture rate concept. The City determined that a threshold of 2,500 MT CO<sub>2</sub>e per year would "capture" 90 percent of the emissions on average from all projects. Projects that would emit less than 2,500 MT CO<sub>2</sub>e per year are considered less than significant.

According to Appendix B of the City of Escondido *Greenhouse Gas Emissions Adopted CEQA Thresholds and Screening Tables* document (City 2013), it would generally require 136 mid-rise apartments or 33,000 sf retail commercial space in order to generate 2,500 MT CO<sub>2</sub>e per year. Given that the proposed project would develop 131 dwelling units and 4,289 sf of commercial space, the GHG emissions generated by the project would not have the potential to exceed 2,500 MT CO<sub>2</sub>e per year and are quantified below.

### **Construction**

Project construction emissions were estimated using the CalEEMod, version 2016.3.2 (ENVIRON et al. 2016) based on construction information provided by Touchstone Communities. Detailed assumptions and modeling data sheets are provided in Attachment A, CalEEMod Results.

Construction GHG emissions include emissions from site preparation, heavy construction equipment, and worker trips. The proposed project includes GHG emissions from construction activities amortized over a 30-year project lifetime and added to operation emissions, as outlined in the E-CAP, to determine the significance of project emissions (City of Escondido 2013). As shown in Table 1, the total GHG emissions that are anticipated from construction of the proposed project would be approximately 1,391.9 MT CO<sub>2</sub>e or 46.4 MT CO<sub>2</sub>e annually for 30 years.

### **Operation**

During operation, area and indirect emissions sources associated with the proposed project would primarily result from electricity and natural gas consumption, water and wastewater transport, and solid waste generation. GHG emissions from electricity consumed on site by the proposed project would be generated off site by fuel combustion at the electricity provider. GHG emissions from water and wastewater transport are also indirect emissions resulting from the energy required to transport water from its source, and the energy required to treat wastewater and transport it to its treated discharge point. Residential uses at the project site would also generate mobile source emissions from motor vehicle trips generated by residents and visitors. The various operational GHG emissions associated with the proposed project are shown in Table 1. The total GHG emissions that are anticipated from operation of the proposed project would be approximately 1,700.9 MT CO<sub>2</sub>e per year. Overall, the proposed project's total annual GHG emissions resulting from construction and operational activities would be 1,747.3 MT CO<sub>2</sub>e per year and would not exceed the City's threshold of 2,500 MT CO<sub>2</sub>e per year. Impacts would be less than significant.

**Table 1  
Estimated Project Related GHG Emissions**

Emission Source	Emissions (MTCO <sub>2</sub> e)
<b>Construction</b>	
<b>Total</b>	<b>1,391.9</b>
<b>Annual Construction Emissions (Total Emissions Amortized over 30 years)</b>	<b>46.4</b>
<b>Operations (Annual)</b>	
Area	1.6
Electricity	365.8
Natural Gas	52.8
Mobile	1,171.2
Waste	32.6
Water	76.9
<i>Operational Subtotal</i>	<i>1,700.9</i>
<b>Total Annual Project Emissions</b>	<b>1,747.3</b>
<i>City Screening Threshold</i>	<i>2,500</i>
Significant Impact?	No

**Sources:** CalEEMod version 2016.3.2 (output data provided in Attachment A).

City of Escondido Greenhouse Gas Emissions Adopted CEQA Thresholds and Screening Tables (City of Escondido 2013).

**Notes:** According to project plans, assumes the residential units do not include hearths or woodstoves. Mobile sources based on the Traffic Impact Analysis prepared for the proposed project by LLG 2019.

***Compliance with Applicable Plans, Policies, or Regulations***

In response to Executive Order B-30-15 and Senate Bill 32, CARB updated its Climate Change Scoping Plan in December 2017 to address the statewide interim GHG emissions reduction goal for 2030 of 40 percent below 1990 levels. At the local planning and project level, the 2017 Climate Change Scoping Plan Update emphasizes the importance of reducing vehicle miles traveled through transit-oriented development; prioritizing walking, biking, and transit; improving access to viable and affordable public transportation; and providing active transportation opportunities. The 2017 Climate Change Scoping Plan Update also encourages reductions in building energy use through investment in, but not limited to, cool roofs, solar panels, solar water heaters, smart meters, energy-efficient lighting, energy-efficient appliances, energy-efficient windows, insulation, and water conservation measures (CARB 2017). The proposed project would result in an impact if it conflicts with these 2017 Climate Change Scoping Plan Update goals.

As a residential infill development, within the downtown retail core, and less than one half mile from the Escondido Transit Center, which provides county-wide bus and light rail connections, the proposed project would not conflict with the 2017 Climate Change Scoping Plan Update goal of increasing low-carbon mobility choices. Furthermore, the proposed project would be required to include all mandatory green building measures for new residential developments under the CALGreen Code and Title 24 energy efficiency standards. Bicycle parking would be provided within the project to encourage bicycle use. Therefore, the proposed project would be consistent with the CARB Scoping Plan Update and impacts would be less than significant.

The proposed project includes a Planned Development application that would reserve 11 percent of the units for Very Low Income Households. Providing 11 percent Very Low Income units would qualify the project for a density bonus of 35 percent over the maximum allowable density of dwelling units. Pursuant to Density Bonus Law, Section 65915 of the California Government Code, the density bonus would yield an additional 28 units. An additional 25 units would be requested under the City’s Density Transfer Program from density available within the planned buildout of the Downtown Specific Plan as included in the General Plan EIR. By relying on the State

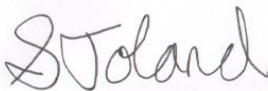
Density Bonus Law and the City's density transfer pool, the level of development proposed by the project would not conflict with the overall growth forecasted in the General Plan for the Downtown Specific Plan area. Because development of the proposed project would be consistent with the overall level of development allowed in the Downtown Specific Plan, the GHG emissions associated with the project would have already been accounted for in the City's future emissions forecast. As such, implementation of the proposed project would be consistent with the E-CAP. Additionally, because the GHG emissions generated by the proposed project would not exceed the 2,500 MT CO<sub>2</sub>e per year threshold established in the E-CAP, the project would not hinder the City's ability to reduce its GHG emissions in accordance with AB 32 requirements. Therefore, implementation of the proposed project would not adversely affect the statewide attainment of GHG emission reduction goals of AB 32 and associated impacts would be less than significant.

## Summary

Overall, the proposed project's total annual GHG emissions resulting from construction and operational activities would be 1,747.3 MT CO<sub>2</sub>e per year. The project's construction and operational GHG emissions would not exceed the City's threshold of 2,500 MT CO<sub>2</sub>e per year. Thus, the proposed project would not result in the generation of substantial levels of GHG emissions. Implementation of the proposed project would not adversely affect the statewide attainment of GHG emission reduction goals of AB 32 and be consistent with the CARB Scoping Plan Update. These impacts would be less than significant and no mitigation measures are necessary.

Should you have any questions regarding this memo, please contact me at 619.481.5002 or Sharon.Toland@WeAreHarris.com.

Sincerely,



**Sharon Toland**  
Project Manager  
Harris & Associates

## References

- California Air Pollution Control Officers Association. 2008. CEQA & Climate Change – Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act. Available online, <http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA-White-Paper.pdf>
- City of Escondido. 2012. Escondido General Plan Update, Downtown Specific Plan Update, and Climate Action Plan Final Environmental Impact Report, vol. 1. PHG 09-0020, PHG 10-0016, SCH No. 2010071064. Prepared by Atkins. April 23, 2012. Accessed February 12, 2019. <https://www.escondido.org/Volume-I-Draft-EIR.aspx>.
- City of Escondido. 2013. City of Escondido Greenhouse Gas Emissions Adopted CEQA Thresholds and Screening Tables. Prepared by Atkins. December 4, 2013. Accessed February 12, 2019. <https://www.escondido.org/Data/Sites/1/media/PDFs/Planning/ClimateActionPlan/CEQAThresholdsAndScreeningTables.pdf>.
- LLG (Linscott, Law and Greenspan). 2019. Transportation Impact Analysis for Aspire. July 18, 2019.

**Attachment A**  
**CalEEMod Results**

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Touchstone Aspire - San Diego County, Annual

**Touchstone Aspire**  
**San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	229.00	Space	0.31	91,600.00	0
Recreational Swimming Pool	14.50	1000sqft	0.10	14,539.00	0
Apartments High Rise	131.00	Dwelling Unit	0.50	131,000.00	375
Strip Mall	4.30	1000sqft	0.13	4,300.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

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Project Characteristics -

Land Use - lot acreage adjusted to add up to 1.04. All common open space areas assumed in pool.

Construction Phase - construction schedule provided by applicant 7/24 and CatEx Report 7/2019

Off-road Equipment -

Off-road Equipment - Off-highway trucks represent cement trucks

Off-road Equipment - Added equipment for parking lot demo and lot excavation

Trips and VMT - assumes 12 CY per truck trip and 32 two-way vendor trips

Grading - Export provided in grading plan; total acres adjusted to 1.04

Vehicle Trips - Adjust to reflect TIA (July 2019)

Woodstoves - No hearths or woodstoves according to development permit

Solid Waste - removed solid waste from swimming pool because it would double count residents

Construction Off-road Equipment Mitigation -

Area Mitigation - SDAPCD Rule 67

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	109.00
tblConstructionPhase	NumDays	200.00	371.00
tblConstructionPhase	NumDays	4.00	40.00
tblConstructionPhase	PhaseEndDate	6/25/2020	3/29/2021
tblConstructionPhase	PhaseEndDate	6/11/2020	3/29/2021
tblConstructionPhase	PhaseEndDate	9/5/2019	10/25/2019
tblConstructionPhase	PhaseStartDate	6/12/2020	10/28/2020
tblConstructionPhase	PhaseStartDate	9/6/2019	10/28/2019
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00



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tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	72.05	0.00
tblFireplaces	NumberNoFireplace	13.10	131.00
tblFireplaces	NumberWood	45.85	0.00
tblGrading	AcresOfGrading	15.00	1.04
tblGrading	MaterialExported	0.00	19,000.00
tblLandUse	LandUseSquareFeet	14,500.00	14,539.00
tblLandUse	LotAcreage	2.06	0.31
tblLandUse	LotAcreage	0.33	0.10
tblLandUse	LotAcreage	2.11	0.50
tblLandUse	LotAcreage	0.10	0.13
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblSolidWaste	SolidWasteGenerationRate	82.65	0.00
tblTripsAndVMT	HaulingTripNumber	2,375.00	3,167.00
tblTripsAndVMT	VendorTripNumber	0.00	64.00
tblTripsAndVMT	VendorTripNumber	32.00	64.00
tblVehicleTrips	HO_TTP	39.60	40.00
tblVehicleTrips	HS_TTP	18.80	20.00
tblVehicleTrips	HW_TTP	41.60	40.00
tblVehicleTrips	ST_TR	4.98	5.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	148.20

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tblVehicleTrips	SU_TR	3.65	5.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	148.20
tblVehicleTrips	WD_TR	4.20	5.00
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	44.32	148.20
tblWoodstoves	NumberCatalytic	6.55	0.00
tblWoodstoves	NumberNoncatalytic	6.55	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 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					
2019	0.1586	1.8892	0.9981	3.7400e-003	0.1663	0.0553	0.2216	0.0703	0.0523	0.1225	0.0000	349.1819	349.1819	0.0503	0.0000	350.4382
2020	1.4927	4.2267	3.2816	9.3500e-003	0.2080	0.1579	0.3659	0.0566	0.1504	0.2070	0.0000	830.6831	830.6831	0.1394	0.0000	834.1686
2021	1.4197	0.9316	0.8083	2.3200e-003	0.0549	0.0338	0.0888	0.0149	0.0324	0.0473	0.0000	206.4811	206.4811	0.0329	0.0000	207.3043
<b>Maximum</b>	<b>1.4927</b>	<b>4.2267</b>	<b>3.2816</b>	<b>9.3500e-003</b>	<b>0.2080</b>	<b>0.1579</b>	<b>0.3659</b>	<b>0.0703</b>	<b>0.1504</b>	<b>0.2070</b>	<b>0.0000</b>	<b>830.6831</b>	<b>830.6831</b>	<b>0.1394</b>	<b>0.0000</b>	<b>834.1686</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					
2019	0.1586	1.8892	0.9981	3.7400e-003	0.1155	0.0553	0.1708	0.0428	0.0523	0.0951	0.0000	349.1817	349.1817	0.0503	0.0000	350.4381
2020	1.4927	4.2267	3.2816	9.3500e-003	0.2080	0.1579	0.3659	0.0566	0.1504	0.2070	0.0000	830.6825	830.6825	0.1394	0.0000	834.1680
2021	1.4197	0.9316	0.8083	2.3200e-003	0.0549	0.0338	0.0888	0.0149	0.0324	0.0473	0.0000	206.4810	206.4810	0.0329	0.0000	207.3042
<b>Maximum</b>	<b>1.4927</b>	<b>4.2267</b>	<b>3.2816</b>	<b>9.3500e-003</b>	<b>0.2080</b>	<b>0.1579</b>	<b>0.3659</b>	<b>0.0566</b>	<b>0.1504</b>	<b>0.2070</b>	<b>0.0000</b>	<b>830.6825</b>	<b>830.6825</b>	<b>0.1394</b>	<b>0.0000</b>	<b>834.1680</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	11.82	0.00	7.50	19.38	0.00	7.29	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	9-1-2019	11-30-2019	1.5710	1.5710
2	12-1-2019	2-29-2020	1.2019	1.2019
3	3-1-2020	5-31-2020	1.1714	1.1714
4	6-1-2020	8-31-2020	1.1701	1.1701
5	9-1-2020	11-30-2020	1.6966	1.6966
6	12-1-2020	2-28-2021	2.4833	2.4833
7	3-1-2021	5-31-2021	0.7857	0.7857
		Highest	2.4833	2.4833

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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	0.8480	0.0113	0.9771	5.0000e-005		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	1.5933	1.5933	1.5500e-003	0.0000	1.6321
Energy	5.3000e-003	0.0453	0.0195	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	416.9757	416.9757	0.0157	4.0000e-003	418.5588
Mobile	0.3555	1.5134	3.9315	0.0127	1.0703	0.0110	1.0812	0.2866	0.0102	0.2969	0.0000	1,169.6174	1,169.6174	0.0646	0.0000	1,171.2332
Waste						0.0000	0.0000		0.0000	0.0000	13.1477	0.0000	13.1477	0.7770	0.0000	32.5729
Water						0.0000	0.0000		0.0000	0.0000	3.0809	63.4794	66.5604	0.3190	8.0000e-003	76.9194
<b>Total</b>	<b>1.2089</b>	<b>1.5700</b>	<b>4.9280</b>	<b>0.0130</b>	<b>1.0703</b>	<b>0.0200</b>	<b>1.0903</b>	<b>0.2866</b>	<b>0.0193</b>	<b>0.3059</b>	<b>16.2287</b>	<b>1,651.6659</b>	<b>1,667.8946</b>	<b>1.1779</b>	<b>0.0120</b>	<b>1,700.9165</b>

Touchstone Aspire - San Diego County, Annual

**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	0.8480	0.0113	0.9771	5.0000e-005		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	1.5933	1.5933	1.5500e-003	0.0000	1.6321
Energy	5.3000e-003	0.0453	0.0195	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	416.9757	416.9757	0.0157	4.0000e-003	418.5588
Mobile	0.3555	1.5134	3.9315	0.0127	1.0703	0.0110	1.0812	0.2866	0.0102	0.2969	0.0000	1,169.6174	1,169.6174	0.0646	0.0000	1,171.2332
Waste						0.0000	0.0000		0.0000	0.0000	13.1477	0.0000	13.1477	0.7770	0.0000	32.5729
Water						0.0000	0.0000		0.0000	0.0000	3.0809	63.4794	66.5604	0.3190	8.0000e-003	76.9194
<b>Total</b>	<b>1.2089</b>	<b>1.5700</b>	<b>4.9280</b>	<b>0.0130</b>	<b>1.0703</b>	<b>0.0200</b>	<b>1.0903</b>	<b>0.2866</b>	<b>0.0193</b>	<b>0.3059</b>	<b>16.2287</b>	<b>1,651.6659</b>	<b>1,667.8946</b>	<b>1.1779</b>	<b>0.0120</b>	<b>1,700.9165</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	Grading	Grading	9/1/2019	10/25/2019	5	40	
2	Building Construction	Building Construction	10/28/2019	3/29/2021	5	371	
3	Architectural Coating	Architectural Coating	10/28/2020	3/29/2021	5	109	

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

**Acres of Grading (Grading Phase): 1.04**

**Acres of Paving: 0.31**

**Residential Indoor: 265,275; Residential Outdoor: 88,425; Non-Residential Indoor: 27,434; Non-Residential Outdoor: 9,145; Striped Parking Area: 5,496 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	6.00	81	0.73
Grading	Excavators	1	6.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Off-Highway Trucks	2	6.00	402	0.38
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	13.00	64.00	3,167.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	140.00	64.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0922	0.0000	0.0922	0.0499	0.0000	0.0499	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0392	0.4148	0.2366	4.5000e-004		0.0201	0.0201		0.0188	0.0188	0.0000	40.3558	40.3558	0.0108	0.0000	40.6254
<b>Total</b>	<b>0.0392</b>	<b>0.4148</b>	<b>0.2366</b>	<b>4.5000e-004</b>	<b>0.0922</b>	<b>0.0201</b>	<b>0.1123</b>	<b>0.0499</b>	<b>0.0188</b>	<b>0.0687</b>	<b>0.0000</b>	<b>40.3558</b>	<b>40.3558</b>	<b>0.0108</b>	<b>0.0000</b>	<b>40.6254</b>



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**3.2 Grading - 2019**

**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	0.0139	0.4853	0.1059	1.2500e-003	0.0271	1.8100e-003	0.0289	7.4400e-003	1.7300e-003	9.1800e-003	0.0000	123.4488	123.4488	0.0112	0.0000	123.7282
Vendor	6.0000e-003	0.1607	0.0432	3.5000e-004	8.5000e-003	1.1100e-003	9.6100e-003	2.4500e-003	1.0600e-003	3.5200e-003	0.0000	34.0068	34.0068	2.7300e-003	0.0000	34.0750
Worker	1.0300e-003	7.9000e-004	7.6100e-003	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.9461	1.9461	6.0000e-005	0.0000	1.9477
<b>Total</b>	<b>0.0209</b>	<b>0.6467</b>	<b>0.1566</b>	<b>1.6200e-003</b>	<b>0.0377</b>	<b>2.9400e-003</b>	<b>0.0406</b>	<b>0.0104</b>	<b>2.8000e-003</b>	<b>0.0133</b>	<b>0.0000</b>	<b>159.4017</b>	<b>159.4017</b>	<b>0.0140</b>	<b>0.0000</b>	<b>159.7509</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					0.0415	0.0000	0.0415	0.0225	0.0000	0.0225	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0392	0.4148	0.2366	4.5000e-004		0.0201	0.0201		0.0188	0.0188	0.0000	40.3558	40.3558	0.0108	0.0000	40.6254
<b>Total</b>	<b>0.0392</b>	<b>0.4148</b>	<b>0.2366</b>	<b>4.5000e-004</b>	<b>0.0415</b>	<b>0.0201</b>	<b>0.0616</b>	<b>0.0225</b>	<b>0.0188</b>	<b>0.0412</b>	<b>0.0000</b>	<b>40.3558</b>	<b>40.3558</b>	<b>0.0108</b>	<b>0.0000</b>	<b>40.6254</b>

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**3.2 Grading - 2019**

**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	0.0139	0.4853	0.1059	1.2500e-003	0.0271	1.8100e-003	0.0289	7.4400e-003	1.7300e-003	9.1800e-003	0.0000	123.4488	123.4488	0.0112	0.0000	123.7282
Vendor	6.0000e-003	0.1607	0.0432	3.5000e-004	8.5000e-003	1.1100e-003	9.6100e-003	2.4500e-003	1.0600e-003	3.5200e-003	0.0000	34.0068	34.0068	2.7300e-003	0.0000	34.0750
Worker	1.0300e-003	7.9000e-004	7.6100e-003	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.9461	1.9461	6.0000e-005	0.0000	1.9477
<b>Total</b>	<b>0.0209</b>	<b>0.6467</b>	<b>0.1566</b>	<b>1.6200e-003</b>	<b>0.0377</b>	<b>2.9400e-003</b>	<b>0.0406</b>	<b>0.0104</b>	<b>2.8000e-003</b>	<b>0.0133</b>	<b>0.0000</b>	<b>159.4017</b>	<b>159.4017</b>	<b>0.0140</b>	<b>0.0000</b>	<b>159.7509</b>

**3.3 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	0.0784	0.6290	0.4578	9.8000e-004		0.0307	0.0307		0.0293	0.0293	0.0000	84.8409	84.8409	0.0215	0.0000	85.3784
<b>Total</b>	<b>0.0784</b>	<b>0.6290</b>	<b>0.4578</b>	<b>9.8000e-004</b>		<b>0.0307</b>	<b>0.0307</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>84.8409</b>	<b>84.8409</b>	<b>0.0215</b>	<b>0.0000</b>	<b>85.3784</b>

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**3.3 Building Construction - 2019**

**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	7.0500e-003	0.1888	0.0507	4.1000e-004	9.9800e-003	1.3100e-003	0.0113	2.8800e-003	1.2500e-003	4.1300e-003	0.0000	39.9580	39.9580	3.2100e-003	0.0000	40.0381
Worker	0.0130	9.9500e-003	0.0963	2.7000e-004	0.0264	1.9000e-004	0.0266	7.0100e-003	1.8000e-004	7.1900e-003	0.0000	24.6255	24.6255	7.9000e-004	0.0000	24.6453
<b>Total</b>	<b>0.0200</b>	<b>0.1987</b>	<b>0.1470</b>	<b>6.8000e-004</b>	<b>0.0364</b>	<b>1.5000e-003</b>	<b>0.0379</b>	<b>9.8900e-003</b>	<b>1.4300e-003</b>	<b>0.0113</b>	<b>0.0000</b>	<b>64.5835</b>	<b>64.5835</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>64.6835</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	0.0784	0.6290	0.4578	9.8000e-004		0.0307	0.0307		0.0293	0.0293	0.0000	84.8408	84.8408	0.0215	0.0000	85.3783
<b>Total</b>	<b>0.0784</b>	<b>0.6290</b>	<b>0.4578</b>	<b>9.8000e-004</b>		<b>0.0307</b>	<b>0.0307</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>84.8408</b>	<b>84.8408</b>	<b>0.0215</b>	<b>0.0000</b>	<b>85.3783</b>

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**3.3 Building Construction - 2019**

**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	7.0500e-003	0.1888	0.0507	4.1000e-004	9.9800e-003	1.3100e-003	0.0113	2.8800e-003	1.2500e-003	4.1300e-003	0.0000	39.9580	39.9580	3.2100e-003	0.0000	40.0381
Worker	0.0130	9.9500e-003	0.0963	2.7000e-004	0.0264	1.9000e-004	0.0266	7.0100e-003	1.8000e-004	7.1900e-003	0.0000	24.6255	24.6255	7.9000e-004	0.0000	24.6453
<b>Total</b>	<b>0.0200</b>	<b>0.1987</b>	<b>0.1470</b>	<b>6.8000e-004</b>	<b>0.0364</b>	<b>1.5000e-003</b>	<b>0.0379</b>	<b>9.8900e-003</b>	<b>1.4300e-003</b>	<b>0.0113</b>	<b>0.0000</b>	<b>64.5835</b>	<b>64.5835</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>64.6835</b>

**3.3 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3963	3.1797	2.4763	5.4800e-003		0.1495	0.1495		0.1424	0.1424	0.0000	465.7497	465.7497	0.1179	0.0000	468.6963
<b>Total</b>	<b>0.3963</b>	<b>3.1797</b>	<b>2.4763</b>	<b>5.4800e-003</b>		<b>0.1495</b>	<b>0.1495</b>		<b>0.1424</b>	<b>0.1424</b>	<b>0.0000</b>	<b>465.7497</b>	<b>465.7497</b>	<b>0.1179</b>	<b>0.0000</b>	<b>468.6963</b>

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**3.3 Building Construction - 2020**

**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	0.0320	0.9556	0.2539	2.2700e-003	0.0557	4.6600e-003	0.0603	0.0161	4.4600e-003	0.0205	0.0000	221.2214	221.2214	0.0170	0.0000	221.6454
Worker	0.0676	0.0501	0.4908	1.4700e-003	0.1471	1.0600e-003	0.1481	0.0391	9.7000e-004	0.0401	0.0000	132.9422	132.9422	3.9900e-003	0.0000	133.0420
<b>Total</b>	<b>0.0996</b>	<b>1.0057</b>	<b>0.7447</b>	<b>3.7400e-003</b>	<b>0.2027</b>	<b>5.7200e-003</b>	<b>0.2084</b>	<b>0.0552</b>	<b>5.4300e-003</b>	<b>0.0606</b>	<b>0.0000</b>	<b>354.1636</b>	<b>354.1636</b>	<b>0.0210</b>	<b>0.0000</b>	<b>354.6873</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	0.3963	3.1797	2.4763	5.4800e-003		0.1495	0.1495		0.1424	0.1424	0.0000	465.7491	465.7491	0.1179	0.0000	468.6957
<b>Total</b>	<b>0.3963</b>	<b>3.1797</b>	<b>2.4763</b>	<b>5.4800e-003</b>		<b>0.1495</b>	<b>0.1495</b>		<b>0.1424</b>	<b>0.1424</b>	<b>0.0000</b>	<b>465.7491</b>	<b>465.7491</b>	<b>0.1179</b>	<b>0.0000</b>	<b>468.6957</b>

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**3.3 Building Construction - 2020**

**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	0.0320	0.9556	0.2539	2.2700e-003	0.0557	4.6600e-003	0.0603	0.0161	4.4600e-003	0.0205	0.0000	221.2214	221.2214	0.0170	0.0000	221.6454
Worker	0.0676	0.0501	0.4908	1.4700e-003	0.1471	1.0600e-003	0.1481	0.0391	9.7000e-004	0.0401	0.0000	132.9422	132.9422	3.9900e-003	0.0000	133.0420
<b>Total</b>	<b>0.0996</b>	<b>1.0057</b>	<b>0.7447</b>	<b>3.7400e-003</b>	<b>0.2027</b>	<b>5.7200e-003</b>	<b>0.2084</b>	<b>0.0552</b>	<b>5.4300e-003</b>	<b>0.0606</b>	<b>0.0000</b>	<b>354.1636</b>	<b>354.1636</b>	<b>0.0210</b>	<b>0.0000</b>	<b>354.6873</b>

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0844	0.6675	0.5675	1.3000e-003		0.0302	0.0302		0.0287	0.0287	0.0000	110.2131	110.2131	0.0275	0.0000	110.9004
<b>Total</b>	<b>0.0844</b>	<b>0.6675</b>	<b>0.5675</b>	<b>1.3000e-003</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0287</b>	<b>0.0287</b>	<b>0.0000</b>	<b>110.2131</b>	<b>110.2131</b>	<b>0.0275</b>	<b>0.0000</b>	<b>110.9004</b>

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**3.3 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	6.1300e-003	0.2039	0.0544	5.3000e-004	0.0132	4.3000e-004	0.0136	3.8000e-003	4.1000e-004	4.2100e-003	0.0000	51.8697	51.8697	3.8500e-003	0.0000	51.9660
Worker	0.0151	0.0108	0.1084	3.4000e-004	0.0348	2.5000e-004	0.0351	9.2500e-003	2.3000e-004	9.4800e-003	0.0000	30.4027	30.4027	8.7000e-004	0.0000	30.4245
<b>Total</b>	<b>0.0212</b>	<b>0.2147</b>	<b>0.1628</b>	<b>8.7000e-004</b>	<b>0.0480</b>	<b>6.8000e-004</b>	<b>0.0487</b>	<b>0.0131</b>	<b>6.4000e-004</b>	<b>0.0137</b>	<b>0.0000</b>	<b>82.2724</b>	<b>82.2724</b>	<b>4.7200e-003</b>	<b>0.0000</b>	<b>82.3904</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	0.0844	0.6675	0.5675	1.3000e-003		0.0302	0.0302		0.0287	0.0287	0.0000	110.2130	110.2130	0.0275	0.0000	110.9002
<b>Total</b>	<b>0.0844</b>	<b>0.6675</b>	<b>0.5675</b>	<b>1.3000e-003</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0287</b>	<b>0.0287</b>	<b>0.0000</b>	<b>110.2130</b>	<b>110.2130</b>	<b>0.0275</b>	<b>0.0000</b>	<b>110.9002</b>

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**3.3 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	6.1300e-003	0.2039	0.0544	5.3000e-004	0.0132	4.3000e-004	0.0136	3.8000e-003	4.1000e-004	4.2100e-003	0.0000	51.8697	51.8697	3.8500e-003	0.0000	51.9660
Worker	0.0151	0.0108	0.1084	3.4000e-004	0.0348	2.5000e-004	0.0351	9.2500e-003	2.3000e-004	9.4800e-003	0.0000	30.4027	30.4027	8.7000e-004	0.0000	30.4245
<b>Total</b>	<b>0.0212</b>	<b>0.2147</b>	<b>0.1628</b>	<b>8.7000e-004</b>	<b>0.0480</b>	<b>6.8000e-004</b>	<b>0.0487</b>	<b>0.0131</b>	<b>6.4000e-004</b>	<b>0.0137</b>	<b>0.0000</b>	<b>82.2724</b>	<b>82.2724</b>	<b>4.7200e-003</b>	<b>0.0000</b>	<b>82.3904</b>

**3.4 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6900e-003	0.0396	0.0430	7.0000e-005		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	6.0002	6.0002	4.6000e-004	0.0000	6.0118
<b>Total</b>	<b>0.9944</b>	<b>0.0396</b>	<b>0.0430</b>	<b>7.0000e-005</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>	<b>6.0002</b>	<b>6.0002</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>6.0118</b>



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**3.4 Architectural Coating - 2020**

**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	2.4300e-003	1.8000e-003	0.0176	5.0000e-005	5.2800e-003	4.0000e-005	5.3100e-003	1.4000e-003	3.0000e-005	1.4400e-003	0.0000	4.7697	4.7697	1.4000e-004	0.0000	4.7733
<b>Total</b>	<b>2.4300e-003</b>	<b>1.8000e-003</b>	<b>0.0176</b>	<b>5.0000e-005</b>	<b>5.2800e-003</b>	<b>4.0000e-005</b>	<b>5.3100e-003</b>	<b>1.4000e-003</b>	<b>3.0000e-005</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>4.7697</b>	<b>4.7697</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>4.7733</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	0.9887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6900e-003	0.0396	0.0430	7.0000e-005		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	6.0001	6.0001	4.6000e-004	0.0000	6.0118
<b>Total</b>	<b>0.9944</b>	<b>0.0396</b>	<b>0.0430</b>	<b>7.0000e-005</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>	<b>6.0001</b>	<b>6.0001</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>6.0118</b>

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**3.4 Architectural Coating - 2020**

**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	2.4300e-003	1.8000e-003	0.0176	5.0000e-005	5.2800e-003	4.0000e-005	5.3100e-003	1.4000e-003	3.0000e-005	1.4400e-003	0.0000	4.7697	4.7697	1.4000e-004	0.0000	4.7733
<b>Total</b>	<b>2.4300e-003</b>	<b>1.8000e-003</b>	<b>0.0176</b>	<b>5.0000e-005</b>	<b>5.2800e-003</b>	<b>4.0000e-005</b>	<b>5.3100e-003</b>	<b>1.4000e-003</b>	<b>3.0000e-005</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>4.7697</b>	<b>4.7697</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>4.7733</b>

**3.4 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7900e-003	0.0473	0.0563	9.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	7.9151	7.9151	5.4000e-004	0.0000	7.9287
<b>Total</b>	<b>1.3111</b>	<b>0.0473</b>	<b>0.0563</b>	<b>9.0000e-005</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>7.9151</b>	<b>7.9151</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>7.9287</b>

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**3.4 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	3.0200e-003	2.1500e-003	0.0217	7.0000e-005	6.9600e-003	5.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	6.0805	6.0805	1.7000e-004	0.0000	6.0849
<b>Total</b>	<b>3.0200e-003</b>	<b>2.1500e-003</b>	<b>0.0217</b>	<b>7.0000e-005</b>	<b>6.9600e-003</b>	<b>5.0000e-005</b>	<b>7.0100e-003</b>	<b>1.8500e-003</b>	<b>5.0000e-005</b>	<b>1.9000e-003</b>	<b>0.0000</b>	<b>6.0805</b>	<b>6.0805</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.0849</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	1.3043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7900e-003	0.0473	0.0563	9.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	7.9151	7.9151	5.4000e-004	0.0000	7.9287
<b>Total</b>	<b>1.3111</b>	<b>0.0473</b>	<b>0.0563</b>	<b>9.0000e-005</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>7.9151</b>	<b>7.9151</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>7.9287</b>

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**3.4 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	3.0200e-003	2.1500e-003	0.0217	7.0000e-005	6.9600e-003	5.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	6.0805	6.0805	1.7000e-004	0.0000	6.0849
<b>Total</b>	<b>3.0200e-003</b>	<b>2.1500e-003</b>	<b>0.0217</b>	<b>7.0000e-005</b>	<b>6.9600e-003</b>	<b>5.0000e-005</b>	<b>7.0100e-003</b>	<b>1.8500e-003</b>	<b>5.0000e-005</b>	<b>1.9000e-003</b>	<b>0.0000</b>	<b>6.0805</b>	<b>6.0805</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.0849</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	0.3555	1.5134	3.9315	0.0127	1.0703	0.0110	1.0812	0.2866	0.0102	0.2969	0.0000	1,169.6174	1,169.6174	0.0646	0.0000	1,171.2332
Unmitigated	0.3555	1.5134	3.9315	0.0127	1.0703	0.0110	1.0812	0.2866	0.0102	0.2969	0.0000	1,169.6174	1,169.6174	0.0646	0.0000	1,171.2332

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	655.00	655.00	655.00	1,858,544	1,858,544
Enclosed Parking with Elevator	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	637.26	637.26	637.26	981,401	981,401
Total	1,292.26	1,292.26	1,292.26	2,839,945	2,839,945

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	10.80	7.30	7.50	40.00	20.00	40.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

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	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Enclosed Parking with Elevator	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Recreational Swimming Pool	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Strip Mall	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	364.5323	364.5323	0.0147	3.0400e-003	365.8037
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	364.5323	364.5323	0.0147	3.0400e-003	365.8037
NaturalGas Mitigated	5.3000e-003	0.0453	0.0195	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	52.4435	52.4435	1.0100e-003	9.6000e-004	52.7551
NaturalGas Unmitigated	5.3000e-003	0.0453	0.0195	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	52.4435	52.4435	1.0100e-003	9.6000e-004	52.7551

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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	973165	5.2500e-003	0.0448	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	51.9318	51.9318	1.0000e-003	9.5000e-004	52.2404
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
Recreational Swimming Pool	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
Strip Mall	9589	5.0000e-005	4.7000e-004	3.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5117	0.5117	1.0000e-005	1.0000e-005	0.5148
<b>Total</b>		<b>5.3000e-003</b>	<b>0.0453</b>	<b>0.0195</b>	<b>2.9000e-004</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>52.4435</b>	<b>52.4435</b>	<b>1.0100e-003</b>	<b>9.6000e-004</b>	<b>52.7551</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	973165	5.2500e-003	0.0448	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	51.9318	51.9318	1.0000e-003	9.5000e-004	52.2404
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
Recreational Swimming Pool	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
Strip Mall	9589	5.0000e-005	4.7000e-004	3.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5117	0.5117	1.0000e-005	1.0000e-005	0.5148
<b>Total</b>		<b>5.3000e-003</b>	<b>0.0453</b>	<b>0.0195</b>	<b>2.9000e-004</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>52.4435</b>	<b>52.4435</b>	<b>1.0100e-003</b>	<b>9.6000e-004</b>	<b>52.7551</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	524646	171.4589	6.9000e-003	1.4300e-003	172.0569
Enclosed Parking with Elevator	536776	175.4231	7.0600e-003	1.4600e-003	176.0350
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	54008	17.6503	7.1000e-004	1.5000e-004	17.7119
<b>Total</b>		<b>364.5323</b>	<b>0.0147</b>	<b>3.0400e-003</b>	<b>365.8037</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	524646	171.4589	6.9000e-003	1.4300e-003	172.0569
Enclosed Parking with Elevator	536776	175.4231	7.0600e-003	1.4600e-003	176.0350
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	54008	17.6503	7.1000e-004	1.5000e-004	17.7119
<b>Total</b>		<b>364.5323</b>	<b>0.0147</b>	<b>3.0400e-003</b>	<b>365.8037</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

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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	0.8480	0.0113	0.9771	5.0000e-005		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	1.5933	1.5933	1.5500e-003	0.0000	1.6321
Unmitigated	0.8480	0.0113	0.9771	5.0000e-005		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	1.5933	1.5933	1.5500e-003	0.0000	1.6321

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	0.2293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5890					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	0.0298	0.0113	0.9771	5.0000e-005		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	1.5933	1.5933	1.5500e-003	0.0000	1.6321
<b>Total</b>	<b>0.8480</b>	<b>0.0113</b>	<b>0.9771</b>	<b>5.0000e-005</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>	<b>0.0000</b>	<b>1.5933</b>	<b>1.5933</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>1.6321</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	0.2293					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5890					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	0.0298	0.0113	0.9771	5.0000e-005		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	1.5933	1.5933	1.5500e-003	0.0000	1.6321
<b>Total</b>	<b>0.8480</b>	<b>0.0113</b>	<b>0.9771</b>	<b>5.0000e-005</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>	<b>0.0000</b>	<b>1.5933</b>	<b>1.5933</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>1.6321</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	66.5604	0.3190	8.0000e-003	76.9194
Unmitigated	66.5604	0.3190	8.0000e-003	76.9194

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	8.53518 / 5.38087	58.5653	0.2804	7.0300e-003	67.6701
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.857576 / 0.525611	5.8298	0.0282	7.1000e-004	6.7444
Strip Mall	0.318512 / 0.195217	2.1652	0.0105	2.6000e-004	2.5049
<b>Total</b>		<b>66.5604</b>	<b>0.3190</b>	<b>8.0000e-003</b>	<b>76.9194</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	8.53518 / 5.38087	58.5653	0.2804	7.0300e-003	67.6701
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.857576 / 0.525611	5.8298	0.0282	7.1000e-004	6.7444
Strip Mall	0.318512 / 0.195217	2.1652	0.0105	2.6000e-004	2.5049
<b>Total</b>		<b>66.5604</b>	<b>0.3190</b>	<b>8.0000e-003</b>	<b>76.9194</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.1477	0.7770	0.0000	32.5729
Unmitigated	13.1477	0.7770	0.0000	32.5729

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	60.26	12.2322	0.7229	0.0000	30.3049
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	4.51	0.9155	0.0541	0.0000	2.2681
<b>Total</b>		<b>13.1477</b>	<b>0.7770</b>	<b>0.0000</b>	<b>32.5729</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	60.26	12.2322	0.7229	0.0000	30.3049
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	4.51	0.9155	0.0541	0.0000	2.2681
<b>Total</b>		<b>13.1477</b>	<b>0.7770</b>	<b>0.0000</b>	<b>32.5729</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
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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**



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Equipment Type	Number
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**11.0 Vegetation**

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