

Appendix C – Air Quality and Greenhouse Gas Emissions Modeling Assumptions and Results

Proposed Project Construction Emissions Summary

Annual Construction Emissions											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Year	tons/year										
2021	0.7727	1.9251	1.816	4.91E-03	0.3717	0.0639	0.4356	0.0698	0.0594	0.1292	446.6947
2022	0.1	1.1262	0.9177	2.78E-03	0.3535	0.0372	0.3907	0.087	0.0346	0.1216	254.3909
Total Emissions (tons)	0.87	3.05	2.73	0.01	0.73	0.10	0.83	0.16	0.09	0.25	701.09

Notes: ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter equal or less than 10 micrometers in diameter; PM2.5 = particulate matter equal or less than 2.5 micrometers in diameter

Average Daily Construction Emissions											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	
Total Emissions (tons)	0.87	3.05	2.73	0.01	0.73	0.10	0.83	0.16	0.09	0.25	
Average Daily Emissions (pounds/day) ¹	6.93	24.22	21.70	0.06	5.76	0.80	6.56	1.24	0.75	1.99	
Threshold ²	54	54				82			54		
Exceed Threshold?	No	No				No			No		

Notes:
¹ Average daily emissions are calculated based on 21 working days per month over a 12-month construction period.
² Thresholds from Table 2-1 of the BAAQMD CEQA Air Quality Guidelines (BAAQMD 2017)
 ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter equal or less than 10 micrometers in diameter; PM2.5 = particulate matter equal or less than 2.5 micrometers in diameter

Total Months of Construction	12
Working Days/Month	21
Total Days of Construction	252
lb/ton	2000

Unit Conversions	
tons	pounds
1	2000

Construction-Related Greenhouse Gas Emissions	
Year	MT CO2e
2021	446.69
2022	254.39
Total GHG Emissions	701.09
Amortized GHG Emissions¹	23.37

Notes:
¹ Amortized construction GHG emissions calculated assuming 30-year project lifetime.
 CO2e = carbon dioxide equivalents; MT = metric tons

Summary of Project Energy Requirements			
Phase	Energy Requirement	Unit	Annual Energy Consumption (MMBtu)
Demolition Activities by Fuel			
Diesel	62,469	Gallons	8,627
Gasoline	7,472	Gallons	934
Total Demolition Activities Energy Requirements			9,561

Notes:

Totals do not add due to rounding.

Source: Modeled by AECOM in 2020

Conversion Factors		
Category	Amount	Units
kWh per Btu	3,412	Btu/kWh
Diesel (heat content) ¹	5.8	MMBtu/barrel
Motor Gasoline ²	5.25	MMBtu/barrel
Natural Gas ³	0.1	MMBtu/therm
Propane ⁴	0.0913	MMBtu/gallon
Kerosene ⁵	0.135	MMBtu/gallon
Wood ⁶	20	MMBtu/cord
Gallons per Barrel	42	gallons/barrel

Sources:	
1	https://www.theclimaterestory.org/wp-content/uploads/2018/06/The-Climate-Registry-2018-Default-Emission-Factor-Documents.pdf
2	https://www.theclimaterestory.org/wp-content/uploads/2018/06/The-Climate-Registry-2018-Default-Emission-Factor-Documents.pdf
3	https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references
4	https://www.eia.gov/environment/emissions/co2_vol_mass.php
5	https://www.eia.gov/environment/emissions/co2_vol_mass.php
6	https://www.eia.gov/energyexplained/index.cfm?page=about_btu

Former City Hall Demolition: Fuel Consumption				
Source	MT CO ₂ e ^a	Fuel Type	Factor (MT CO ₂ /gallon) ^b	Gallons
Offroad Equip	385	Diesel	1.02E-02	37,905
Hauling	199	Diesel	1.02E-02	19,602
Vendor	50	Diesel	1.02E-02	4,962
Worker	66	Gas	8.89E-03	7,472
Total Gallons			Diesel	62,469
			Gasoline	7,472
Notes:				
Sources:				
^a Modeled by AECOM in 2020;				
^b U.S. Energy Information Administration 2016 (https://www.eia.gov/environment/emissions/co2_vol_mass.php)				

Factor	MT/gallon
Diesel	1.02E-02
Gasoline	8.89E-03

Demolition Activities by Phase	Year	Source	MT CO ₂ e
Hazardous Materials Abatement	2021	Offroad	50.6857
		Hauling	0
		Vendor	35.2405
		Worker	29.7583
Site Control and Preparation	2021	Offroad	73.3053
		Hauling	0
		Vendor	15.1697
		Worker	17.0798
Demolition and Debris Removal	2021	Offroad	117.9682
		Hauling	98.619
		Vendor	0
		Worker	8.8684
Demolition and Debris Removal	2022	Offroad	107.5042
		Hauling	88.6406
		Vendor	0
		Worker	7.7863
Site Rehabilitation	2022	Offroad	35.6486
		Hauling	11.8995
		Vendor	0
		Worker	2.9119

Alternative 1

Annual Construction Emissions - Alternative 1											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Year	tons/year										
2021	1.018	1.454	1.5617	3.65E-03	0.0945	0.0576	0.1521	0.0254	0.0551	0.0806	320.4097
2022	0.4599	0.8392	0.9265	2.04E-03	0.0444	0.037	0.0814	0.0119	0.0361	0.048	173.503
Total Emissions	1.48	2.29	2.49	0.01	0.14	0.09	0.23	0.04	0.09	0.13	493.91

Notes: ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter equal or less than 10 micrometers in diameter; PM2.5 = particulate matter equal or less than 2.5 micrometers in diameter

Average Daily Construction Emissions - Alternative 1											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	
Total Emissions (tons)	1.48	2.29	2.49	0.01	0.14	0.09	0.23	0.04	0.09	0.13	
Average Daily Emissions (pounds/day) ¹	11.73	18.20	19.75	0.05	1.10	0.75	1.85	0.30	0.72	1.02	
Threshold ²	54	54				82			54		
Exceed Threshold?	No	No				No			No		

Notes:
¹ Average daily emissions are calculated based on 21 working days per month over a 12-month construction period.
² Thresholds from Table 2-1 of the BAAQMD CEQA Air Quality Guidelines (BAAQMD 2017)
 ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter equal or less than 10 micrometers in diameter; PM2.5 = particulate matter equal or less than 2.5 micrometers in diameter

Total Months of Construction	12
Working Days/Month	21
Total Days of Construction	252
lb/ton	2000

Unit Conversions	
tons	pounds
1	2000

Construction-Related Greenhouse Gas Emissions	
Year	MT CO2e
2021	320.41
2022	173.50
Total GHG Emissions	493.91
Amortized GHG Emissions ¹	16.46

Notes:
¹ Amortized construction GHG emissions calculated assuming 30-year project lifetime.
 CO2e = carbon dioxide equivalents; MT = metric tons

Operational Emissions - Alternative 1											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	
Total Emissions (tons)	0.69	0.79	1.92	0.01	0.55	0.01	0.56	0.15	0.01	0.16	
Threshold	10	10					15			10	
Average Daily Emissions (pounds/day) ¹	3.77	4.32	10.50	0.04	3.03	0.07	3.09	0.81	0.06	0.88	
Threshold ²	54	54					82			54	
Exceed Threshold?	No	No					No			No	

Notes:

Days/Year	365
lb/ton	2000

Operational Greenhouse Gas Emissions	
Source	MT CO2e
Area	0
Energy	292
Mobile	558
Waste	53
Water	42
Total Annual GHG Emissions	945
GHG Emissions Per Service Population	2.5

Alternative 2

Annual Construction Emissions - Alternative 2											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Year	tons/year										
2021	0.9607	1.3336	1.438	3.29E-03	0.0841	0.0532	0.1373	0.0226	0.0506	0.0732	290.1797
2022	1.1404	2.6463	2.8884	6.31E-03	0.1332	0.1167	0.2499	0.0357	0.1135	0.1492	539.8301
Total Emissions	2.10	3.98	4.33	0.01	0.22	0.17	0.39	0.06	0.16	0.22	830.01

Notes: ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter equal or less than 10 micrometers in diameter; PM2.5 = particulate matter equal or less than 2.5 micrometers in diameter

Average Daily Construction Emissions - Alternative 2											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	
Total Emissions (tons)	2.10	3.98	4.33	0.01	0.22	0.17	0.39	0.06	0.16	0.22	
Average Daily Emissions (pounds/day) ¹	11.12	21.06	22.89	0.05	1.15	0.90	2.05	0.31	0.87	1.18	
Threshold ²	54	54				82			54		
Exceed Threshold?	No	No				No			No		

Notes:
¹ Average daily emissions are calculated based on 21 working days per month over a 18-month construction period.
² Thresholds from Table 2-1 of the BAAQMD CEQA Air Quality Guidelines (BAAQMD 2017)
 ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter equal or less than 10 micrometers in diameter; PM2.5 = particulate matter equal or less than 2.5 micrometers in diameter

Total Months of Construction	18
Working Days/Month	21
Total Days of Construction	378
lb/ton	2000

Unit Conversions	
tons	pounds
1	2000

Construction-Related Greenhouse Gas Emissions	
Year	MT CO2e
2021	290.18
2022	539.83
Total GHG Emissions	830.01
Amortized GHG Emissions ¹	27.67

Notes:
¹ Amortized construction GHG emissions calculated assuming 30-year project lifetime.
 CO2e = carbon dioxide equivalents; MT = metric tons

Operational Emissions - Alternative 2											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	
Total Emissions (tons)	0.72	0.64	2.56	0.01	0.56	0.01	0.57	0.15	0.01	0.16	
Threshold	10	10					15			10	
Average Daily Emissions (pounds/day) ¹	3.94	3.53	14.00	0.03	3.05	0.07	3.12	0.82	0.07	0.88	
Threshold ²	54	54					82			54	
Exceed Threshold?	No	No					No			No	

Notes:

Days/Year	365
lb/ton	2000

Operational Greenhouse Gas Emissions	
Source	MT CO2e
Area	6
Energy	94
Mobile	544
Waste	25
Water	15
Total Annual GHG Emissions	683.36
GHG Emissions Per Service Population	1.99

Alternative 3

Annual Construction Emissions - Alternative 3											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Year	tons/year										
2021	1.3912	1.4805	1.5688	3.72E-03	0.0962	0.0577	0.1538	0.0259	0.0552	0.0811	327.09999
2022	0.919	3.648	3.754	9.36E-03	0.1529	0.1433	0.2962	0.0411	0.138	0.1792	818.8817
2023	0.2383	2.2541	2.143	6.04E-03	0.1295	0.0768	0.2063	0.0355	0.0743	0.1098	535.1519
2024	1.097	1.8881	2.2112	5.07E-03	0.0974	0.0744	0.1718	0.0263	0.0717	0.0979	438.4084
2025	0.0516	0.4293	0.5172	1.07E-03	5.12E-03	0.0184	0.0235	1.36E-03	0.017	0.0183	94.6149
Total Emissions	3.70	9.70	10.19	0.03	0.48	0.37	0.85	0.13	0.36	0.49	2214.16

Notes: ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter equal or less than 10 micrometers in diameter; PM2.5 = particulate matter equal or less than 2.5 micrometers in diameter

Average Daily Construction Emissions - Alternative 3											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	
Total Emissions (tons)	3.70	9.70	10.19	0.03	0.48	0.37	0.85	0.13	0.36	0.49	
Average Daily Emissions (pounds/day) ¹	7.04	18.48	19.42	0.05	0.92	0.71	1.62	0.25	0.68	0.93	
Threshold ²	54	54				82			54		
Exceed Threshold?	No	No				No			No		

Notes:
¹ Average daily emissions are calculated based on 21 working days per month over a 32-month construction period.
² Thresholds from Table 2-1 of the BAAQMD CEQA Air Quality Guidelines (BAAQMD 2017)
 ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter equal or less than 10 micrometers in diameter; PM2.5 = particulate matter equal or less than 2.5 micrometers in diameter

Total Months of Construction	50
Working Days/Month	21
Total Days of Construction	1050
lb/ton	2000

Unit Conversions	
tons	pounds
1	2000

Construction-Related Greenhouse Gas Emissions	
Year	MT CO2e
Total GHG Emissions	2214.16
Total GHG Emissions	2,214.16
Amortized GHG Emissions ¹	73.81

Notes:
¹ Amortized construction GHG emissions calculated assuming 30-year project lifetime.
 CO2e = carbon dioxide equivalents; MT = metric tons

Operational Emissions - Alternative 3											
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	
Total Emissions (tons)	0.93	1.02	3.20	0.01	0.92	0.02	0.94	0.25	0.02	0.27	
Threshold	10	10					15			10	
Average Daily Emissions (pounds/day) ¹	5.11	5.56	17.55	0.05	5.04	0.12	5.16	1.35	0.12	1.47	
Threshold ²	54	54					82			54	
Exceed Threshold?	No	No					No			No	

Notes:

Days/Year	365
lb/ton	2000

Operational Greenhouse Gas Emissions	
Source	MT CO2e
Area	5
Energy	378
Mobile	818
Waste	76
Water	55
Total Annual GHG Emissions	1,332.13
GHG Emissions Per Service Population	1.91

Former City Hall Demolition - Santa Clara County, Annual

Former City Hall Demolition
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	113.43	1000sqft	2.60	113,430.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Demolition of vacant Former City Hall only - construction phases only, no operations.

Land Use - Placeholder included for demolition of 113,430 sq. ft. building. No future operations or future use identified for the site at this time.

Construction Phase - Based on project specific construction schedule of 12-15 months with anticipated start date of 2021.

Off-road Equipment - Project specific equipment. Crushing/Proc. Equipment = concrete crusher plant, Off-highway truck = water truck.

Off-road Equipment - Project specific equipment.

Off-road Equipment - Project specific equipment. Off-highway truck = water truck.

Off-road Equipment - Project specific equipment. Off-highway truck = water truck.

Trips and VMT - Haz = max of 30 workers. Site prep = max of 40 workers. Site rehab = max of 20 workers. Demolition debris haul truck trips (loaded) anticipated to be 2,500. Material import truck trips (loaded) during site rehab assumed to be 160. Vendor trips included to account for tree removal/misc. trips based on CalEEMod default of 0.1639 daily trips per 1000 sq. ft.

Energy Use - No operations or future use of the site identified.

Water And Wastewater - No operations or future use of site identified.

Construction Off-road Equipment Mitigation - Assumes watering twice per day consistent with BAAQMD Best Management Practices during construction.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	56715	0
tblAreaCoating	Area_Nonresidential_Interior	170145	0
tblConstructionPhase	NumDays	10.00	151.00
tblConstructionPhase	NumDays	20.00	86.00
tblConstructionPhase	NumDays	6.00	23.00
tblConstructionPhase	NumDays	3.00	65.00
tblEnergyUse	LightingElect	3.88	0.00
tblEnergyUse	NT24E	7.84	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	6.11	0.00
tblEnergyUse	T24NG	16.31	0.00
tblGrading	AcresOfGrading	11.50	3.00
tblGrading	AcresOfGrading	0.00	4.50

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tblGrading	MaterialImported	0.00	2,500.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Control and Preparation
tblOffRoadEquipment	PhaseName		Demolition and Debris Removal
tblOffRoadEquipment	PhaseName		Demolition and Debris Removal

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tblOffRoadEquipment	PhaseName		Demolition and Debris Removal
tblOffRoadEquipment	PhaseName		Site Control and Preparation
tblOffRoadEquipment	PhaseName		Demolition and Debris Removal
tblOffRoadEquipment	PhaseName		Site Rehabilitation
tblOffRoadEquipment	PhaseName		Demolition and Debris Removal
tblOffRoadEquipment	PhaseName		Site Control and Preparation
tblOffRoadEquipment	PhaseName		Demolition and Debris Removal
tblOffRoadEquipment	PhaseName		Site Rehabilitation
tblOffRoadEquipment	PhaseName		Site Rehabilitation
tblOffRoadEquipment	PhaseName		Site Control and Preparation
tblOffRoadEquipment	PhaseName		Demolition and Debris Removal
tblOffRoadEquipment	PhaseName		Demolition and Debris Removal
tblOffRoadEquipment	PhaseName		Site Rehabilitation
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	105.49	0.00
tblTripsAndVMT	HaulingTripNumber	4,450.00	5,000.00
tblTripsAndVMT	HaulingTripNumber	313.00	320.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	WorkerTripNumber	7.00	60.00
tblTripsAndVMT	WorkerTripNumber	18.00	80.00

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tblTripsAndVMT	WorkerTripNumber	35.00	60.00
tblTripsAndVMT	WorkerTripNumber	18.00	40.00
tblVehicleTrips	WD_TR	68.93	0.00
tblWater	IndoorWaterUseRate	22,533,968.17	0.00
tblWater	OutdoorWaterUseRate	13,811,141.78	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.4593	0.4593
2	4-1-2021	6-30-2021	0.4625	0.4625
3	7-1-2021	9-30-2021	0.4842	0.4842
4	10-1-2021	12-31-2021	1.2504	1.2504
5	1-1-2022	3-31-2022	1.2413	1.2413
		Highest	1.2504	1.2504

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	0.4431	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.4431	1.0000e-005	1.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003

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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	0.4431	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.4431	1.0000e-005	1.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003

	ROG	NOx	CO	SO2	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Hazardous Materials Abatement	Architectural Coating	1/1/2021	7/30/2021	5	151	
2	Site Control and Preparation	Site Preparation	8/1/2021	10/29/2021	5	65	
3	Demolition and Debris Removal	Demolition	11/1/2021	2/28/2022	5	86	
4	Site Rehabilitation	Grading	3/1/2022	3/31/2022	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,145; Non-Residential Outdoor: 56,715; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hazardous Materials Abatement	Aerial Lifts	2	8.00	63	0.31
Hazardous Materials Abatement	Air Compressors	0	0.00	78	0.48
Hazardous Materials Abatement	Dumpers/Tenders	1	8.00	16	0.38
Hazardous Materials Abatement	Forklifts	1	8.00	89	0.20
Hazardous Materials Abatement	Skid Steer Loaders	1	8.00	65	0.37
Site Control and Preparation	Aerial Lifts	2	8.00	63	0.31
Site Control and Preparation	Dumpers/Tenders	1	8.00	16	0.38
Site Control and Preparation	Graders	0	0.00	187	0.41
Site Control and Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Control and Preparation	Scrapers	0	0.00	367	0.48
Site Control and Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Control and Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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Demolition and Debris Removal	Aerial Lifts	2	8.00	63	0.31
Demolition and Debris Removal	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition and Debris Removal	Cranes	1	8.00	231	0.29
Demolition and Debris Removal	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition and Debris Removal	Dumpers/Tenders	1	8.00	16	0.38
Demolition and Debris Removal	Excavators	3	8.00	158	0.38
Demolition and Debris Removal	Off-Highway Trucks	1	8.00	402	0.38
Demolition and Debris Removal	Rubber Tired Dozers	0	0.00	247	0.40
Demolition and Debris Removal	Skid Steer Loaders	1	8.00	65	0.37
Demolition and Debris Removal	Sweepers/Scrubbers	1	8.00	64	0.46
Demolition and Debris Removal	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Rehabilitation	Dumpers/Tenders	1	8.00	16	0.38
Site Rehabilitation	Graders	1	8.00	187	0.41
Site Rehabilitation	Off-Highway Trucks	1	8.00	402	0.38
Site Rehabilitation	Plate Compactors	1	8.00	8	0.43
Site Rehabilitation	Rubber Tired Dozers	1	8.00	247	0.40
Site Rehabilitation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Rehabilitation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Hazardous Materials Abatement	5	60.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Control and Preparation	7	80.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition and Debris Removal	14	60.00	0.00	5,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Rehabilitation	7	40.00	0.00	320.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Hazardous Materials Abatement - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5915					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3015	50.3015	0.0154	0.0000	50.6857
Total	0.6181	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3015	50.3015	0.0154	0.0000	50.6857

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3.2 Hazardous Materials Abatement - 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	4.4300e-003	0.1397	0.0372	3.7000e-004	8.9400e-003	3.1000e-004	9.2500e-003	2.5800e-003	3.0000e-004	2.8800e-003	0.0000	35.2021	35.2021	1.5300e-003	0.0000	35.2405
Worker	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583
Total	0.0184	0.1493	0.1408	7.0000e-004	0.0449	5.4000e-004	0.0454	0.0121	5.1000e-004	0.0126	0.0000	64.9434	64.9434	2.2100e-003	0.0000	64.9987

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	0.5915					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3014	50.3014	0.0154	0.0000	50.6856
Total	0.6181	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3014	50.3014	0.0154	0.0000	50.6856

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3.2 Hazardous Materials Abatement - 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	4.4300e-003	0.1397	0.0372	3.7000e-004	8.9400e-003	3.1000e-004	9.2500e-003	2.5800e-003	3.0000e-004	2.8800e-003	0.0000	35.2021	35.2021	1.5300e-003	0.0000	35.2405
Worker	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583
Total	0.0184	0.1493	0.1408	7.0000e-004	0.0449	5.4000e-004	0.0454	0.0121	5.1000e-004	0.0126	0.0000	64.9434	64.9434	2.2100e-003	0.0000	64.9987

3.3 Site Control and Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0391	0.3810	0.3885	8.3000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	72.7270	72.7270	0.0231	0.0000	73.3053
Total	0.0391	0.3810	0.3885	8.3000e-004	2.3900e-003	0.0162	0.0186	2.6000e-004	0.0149	0.0152	0.0000	72.7270	72.7270	0.0231	0.0000	73.3053

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3.3 Site Control and Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.9100e-003	0.0601	0.0160	1.6000e-004	3.8500e-003	1.3000e-004	3.9800e-003	1.1100e-003	1.3000e-004	1.2400e-003	0.0000	15.1532	15.1532	6.6000e-004	0.0000	15.1697
Worker	8.0100e-003	5.5500e-003	0.0595	1.9000e-004	0.0206	1.3000e-004	0.0208	5.4800e-003	1.2000e-004	5.6000e-003	0.0000	17.0701	17.0701	3.9000e-004	0.0000	17.0798
Total	9.9200e-003	0.0657	0.0755	3.5000e-004	0.0245	2.6000e-004	0.0247	6.5900e-003	2.5000e-004	6.8400e-003	0.0000	32.2233	32.2233	1.0500e-003	0.0000	32.2495

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0391	0.3810	0.3885	8.3000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	72.7269	72.7269	0.0231	0.0000	73.3053
Total	0.0391	0.3810	0.3885	8.3000e-004	1.0700e-003	0.0162	0.0173	1.2000e-004	0.0149	0.0151	0.0000	72.7269	72.7269	0.0231	0.0000	73.3053

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3.3 Site Control and Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.9100e-003	0.0601	0.0160	1.6000e-004	3.8500e-003	1.3000e-004	3.9800e-003	1.1100e-003	1.3000e-004	1.2400e-003	0.0000	15.1532	15.1532	6.6000e-004	0.0000	15.1697
Worker	8.0100e-003	5.5500e-003	0.0595	1.9000e-004	0.0206	1.3000e-004	0.0208	5.4800e-003	1.2000e-004	5.6000e-003	0.0000	17.0701	17.0701	3.9000e-004	0.0000	17.0798
Total	9.9200e-003	0.0657	0.0755	3.5000e-004	0.0245	2.6000e-004	0.0247	6.5900e-003	2.5000e-004	6.8400e-003	0.0000	32.2233	32.2233	1.0500e-003	0.0000	32.2495

3.4 Demolition and Debris Removal - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2519	0.0000	0.2519	0.0382	0.0000	0.0382	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0727	0.6859	0.7268	1.3400e-003		0.0333	0.0333		0.0310	0.0310	0.0000	117.1144	117.1144	0.0342	0.0000	117.9682
Total	0.0727	0.6859	0.7268	1.3400e-003	0.2519	0.0333	0.2852	0.0382	0.0310	0.0692	0.0000	117.1144	117.1144	0.0342	0.0000	117.9682

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3.4 Demolition and Debris Removal - 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	0.0103	0.3498	0.0762	1.0200e-003	0.0373	1.0900e-003	0.0384	9.8100e-003	1.0400e-003	0.0109	0.0000	98.5072	98.5072	4.4700e-003	0.0000	98.6190
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	4.1600e-003	2.8800e-003	0.0309	1.0000e-004	0.0107	7.0000e-005	0.0108	2.8500e-003	6.0000e-005	2.9100e-003	0.0000	8.8633	8.8633	2.0000e-004	0.0000	8.8684
Total	0.0144	0.3527	0.1071	1.1200e-003	0.0480	1.1600e-003	0.0492	0.0127	1.1000e-003	0.0138	0.0000	107.3705	107.3705	4.6700e-003	0.0000	107.4873

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					0.1134	0.0000	0.1134	0.0172	0.0000	0.0172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0727	0.6858	0.7268	1.3400e-003		0.0333	0.0333		0.0310	0.0310	0.0000	117.1143	117.1143	0.0342	0.0000	117.9681
Total	0.0727	0.6858	0.7268	1.3400e-003	0.1134	0.0333	0.1467	0.0172	0.0310	0.0482	0.0000	117.1143	117.1143	0.0342	0.0000	117.9681

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3.4 Demolition and Debris Removal - 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	0.0103	0.3498	0.0762	1.0200e-003	0.0373	1.0900e-003	0.0384	9.8100e-003	1.0400e-003	0.0109	0.0000	98.5072	98.5072	4.4700e-003	0.0000	98.6190
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	4.1600e-003	2.8800e-003	0.0309	1.0000e-004	0.0107	7.0000e-005	0.0108	2.8500e-003	6.0000e-005	2.9100e-003	0.0000	8.8633	8.8633	2.0000e-004	0.0000	8.8684
Total	0.0144	0.3527	0.1071	1.1200e-003	0.0480	1.1600e-003	0.0492	0.0127	1.1000e-003	0.0138	0.0000	107.3705	107.3705	4.6700e-003	0.0000	107.4873

3.4 Demolition and Debris Removal - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2295	0.0000	0.2295	0.0348	0.0000	0.0348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0593	0.5350	0.6520	1.2200e-003		0.0250	0.0250		0.0234	0.0234	0.0000	106.7272	106.7272	0.0311	0.0000	107.5042
Total	0.0593	0.5350	0.6520	1.2200e-003	0.2295	0.0250	0.2546	0.0348	0.0234	0.0581	0.0000	106.7272	106.7272	0.0311	0.0000	107.5042

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3.4 Demolition and Debris Removal - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.8100e-003	0.2927	0.0683	9.1000e-004	0.0368	8.5000e-004	0.0377	9.6300e-003	8.2000e-004	0.0105	0.0000	88.5410	88.5410	3.9800e-003	0.0000	88.6406
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	3.5400e-003	2.3500e-003	0.0259	9.0000e-005	9.7600e-003	6.0000e-005	9.8200e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	7.7821	7.7821	1.6000e-004	0.0000	7.7863
Total	0.0124	0.2951	0.0941	1.0000e-003	0.0466	9.1000e-004	0.0475	0.0122	8.8000e-004	0.0131	0.0000	96.3232	96.3232	4.1400e-003	0.0000	96.4268

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					0.1033	0.0000	0.1033	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0593	0.5350	0.6520	1.2200e-003		0.0250	0.0250		0.0234	0.0234	0.0000	106.7270	106.7270	0.0311	0.0000	107.5040
Total	0.0593	0.5350	0.6520	1.2200e-003	0.1033	0.0250	0.1283	0.0156	0.0234	0.0390	0.0000	106.7270	106.7270	0.0311	0.0000	107.5040

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3.4 Demolition and Debris Removal - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.8100e-003	0.2927	0.0683	9.1000e-004	0.0368	8.5000e-004	0.0377	9.6300e-003	8.2000e-004	0.0105	0.0000	88.5410	88.5410	3.9800e-003	0.0000	88.6406
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	3.5400e-003	2.3500e-003	0.0259	9.0000e-005	9.7600e-003	6.0000e-005	9.8200e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	7.7821	7.7821	1.6000e-004	0.0000	7.7863
Total	0.0124	0.2951	0.0941	1.0000e-003	0.0466	9.1000e-004	0.0475	0.0122	8.8000e-004	0.0131	0.0000	96.3232	96.3232	4.1400e-003	0.0000	96.4268

3.5 Site Rehabilitation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0710	0.0000	0.0710	0.0383	0.0000	0.0383	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0259	0.2560	0.1527	4.1000e-004		0.0111	0.0111		0.0103	0.0103	0.0000	35.3680	35.3680	0.0112	0.0000	35.6486
Total	0.0259	0.2560	0.1527	4.1000e-004	0.0710	0.0111	0.0821	0.0383	0.0103	0.0485	0.0000	35.3680	35.3680	0.0112	0.0000	35.6486

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3.5 Site Rehabilitation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1800e-003	0.0393	9.1700e-003	1.2000e-004	2.7100e-003	1.1000e-004	2.8300e-003	7.5000e-004	1.1000e-004	8.6000e-004	0.0000	11.8861	11.8861	5.3000e-004	0.0000	11.8995
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	1.3200e-003	8.8000e-004	9.6700e-003	3.0000e-005	3.6500e-003	2.0000e-005	3.6700e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.9104	2.9104	6.0000e-005	0.0000	2.9119
Total	2.5000e-003	0.0402	0.0188	1.5000e-004	6.3600e-003	1.3000e-004	6.5000e-003	1.7200e-003	1.3000e-004	1.8500e-003	0.0000	14.7965	14.7965	5.9000e-004	0.0000	14.8114

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					0.0319	0.0000	0.0319	0.0172	0.0000	0.0172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0259	0.2560	0.1527	4.1000e-004		0.0111	0.0111		0.0103	0.0103	0.0000	35.3680	35.3680	0.0112	0.0000	35.6485
Total	0.0259	0.2560	0.1527	4.1000e-004	0.0319	0.0111	0.0431	0.0172	0.0103	0.0275	0.0000	35.3680	35.3680	0.0112	0.0000	35.6485

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3.5 Site Rehabilitation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1800e-003	0.0393	9.1700e-003	1.2000e-004	2.7100e-003	1.1000e-004	2.8300e-003	7.5000e-004	1.1000e-004	8.6000e-004	0.0000	11.8861	11.8861	5.3000e-004	0.0000	11.8995
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	1.3200e-003	8.8000e-004	9.6700e-003	3.0000e-005	3.6500e-003	2.0000e-005	3.6700e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.9104	2.9104	6.0000e-005	0.0000	2.9119
Total	2.5000e-003	0.0402	0.0188	1.5000e-004	6.3600e-003	1.3000e-004	6.5000e-003	1.7200e-003	1.3000e-004	1.8500e-003	0.0000	14.7965	14.7965	5.9000e-004	0.0000	14.8114

4.0 Operational Detail - Mobile

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Government Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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			
Government Office Building	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4431	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003
Unmitigated	0.4431	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003

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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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003
Total	0.4431	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003
Total	0.4431	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1600e-003

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Former City Hall Alternative 1 Office Reuse - Santa Clara County, Annual

**Former City Hall Alternative 1 Office Reuse
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	113.43	1000sqft	1.10	113,430.00	0
Parking Lot	97.00	Space	0.87	38,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Updated CO2 Intensity Factor per PG&E 2020 CRSR.

Land Use - Project specific acreage

Construction Phase - Project specific schedule based on anticipated 12-15 months construction duration.

Off-road Equipment - Dump truck modeled as off-highway truck to account for any necessary off-haul of materials.

Off-road Equipment - Project specific equipment.

Off-road Equipment - Concrete vibrator modeled as plate compactor.

Off-road Equipment - Concrete vibrator modeled as plate compactor.

Off-road Equipment - Project specific demolition. Dump truck modeled as off-highway truck to account for potential off-haul.

Trips and VMT - Assumes between 30-40 maximum workers per day. Vendor trip rate during Construction and abatement based on CalEEMod default vendor trip rate for commercial land use.

Vehicle Trips - Updated to ITE 10th Generation. Government office land use, no weekend trips assumed.

Energy Use -

Construction Off-road Equipment Mitigation - Assumes watering twice per day per BAAQMD fugitive dust control requirements.

Mobile Land Use Mitigation - Increases accessibility to adjacent VTA Civic Center station.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	151.00
tblConstructionPhase	NumDays	10.00	109.00
tblConstructionPhase	NumDays	200.00	130.00
tblConstructionPhase	NumDays	20.00	44.00
tblLandUse	LotAcreage	2.60	1.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Selective Demolition
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Selective Demolition
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Selective Demolition
tblOffRoadEquipment	PhaseName		Interior Construction

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tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Selective Demolition
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	25.00	18.00
tblTripsAndVMT	WorkerTripNumber	11.00	60.00
tblTripsAndVMT	WorkerTripNumber	13.00	60.00
tblTripsAndVMT	WorkerTripNumber	53.00	80.00
tblTripsAndVMT	WorkerTripNumber	11.00	80.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	9.74

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	1.0180	1.4540	1.5617	3.6500e-003	0.0945	0.0576	0.1521	0.0254	0.0551	0.0806	0.0000	319.2261	319.2261	0.0473	0.0000	320.4097
2022	0.4599	0.8392	0.9265	2.0400e-003	0.0444	0.0370	0.0814	0.0119	0.0361	0.0480	0.0000	173.0507	173.0507	0.0181	0.0000	173.5030
Maximum	1.0180	1.4540	1.5617	3.6500e-003	0.0945	0.0576	0.1521	0.0254	0.0551	0.0806	0.0000	319.2261	319.2261	0.0473	0.0000	320.4097

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	1.0180	1.4540	1.5617	3.6500e-003	0.0945	0.0576	0.1521	0.0254	0.0551	0.0806	0.0000	319.2258	319.2258	0.0473	0.0000	320.4094
2022	0.4599	0.8392	0.9265	2.0400e-003	0.0444	0.0370	0.0814	0.0119	0.0361	0.0480	0.0000	173.0506	173.0506	0.0181	0.0000	173.5029
Maximum	1.0180	1.4540	1.5617	3.6500e-003	0.0945	0.0576	0.1521	0.0254	0.0551	0.0806	0.0000	319.2258	319.2258	0.0473	0.0000	320.4094

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.4627	0.4627
2	4-1-2021	6-30-2021	0.4660	0.4660
3	7-1-2021	9-30-2021	0.3680	0.3680
4	10-1-2021	12-31-2021	1.1537	1.1537
5	1-1-2022	3-31-2022	1.3075	1.3075
		Highest	1.3075	1.3075

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	0.5057	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7600e-003	3.7600e-003	1.0000e-005	0.0000	4.0100e-003
Energy	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	289.3359	289.3359	0.0287	7.3600e-003	292.2456
Mobile	0.1852	0.7901	2.1808	7.5900e-003	0.7013	6.4300e-003	0.7077	0.1877	6.0100e-003	0.1937	0.0000	694.6961	694.6961	0.0233	0.0000	695.2790
Waste						0.0000	0.0000		0.0000	0.0000	21.4135	0.0000	21.4135	1.2655	0.0000	53.0511
Water						0.0000	0.0000		0.0000	0.0000	6.3960	14.2342	20.6301	0.6589	0.0159	41.8493
Total	0.7008	0.8811	2.2592	8.1400e-003	0.7013	0.0134	0.7146	0.1877	0.0129	0.2007	27.8095	998.2700	1,026.0794	1.9764	0.0233	1,082.4290

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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	0.5057	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7600e-003	3.7600e-003	1.0000e-005	0.0000	4.0100e-003
Energy	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	289.3359	289.3359	0.0287	7.3600e-003	292.2456
Mobile	0.1716	0.6982	1.8372	6.0800e-003	0.5523	5.2400e-003	0.5576	0.1479	4.8900e-003	0.1527	0.0000	557.1935	557.1935	0.0197	0.0000	557.6855
Waste						0.0000	0.0000		0.0000	0.0000	21.4135	0.0000	21.4135	1.2655	0.0000	53.0511
Water						0.0000	0.0000		0.0000	0.0000	6.3960	14.2342	20.6301	0.6589	0.0159	41.8493
Total	0.6873	0.7893	1.9156	6.6300e-003	0.5523	0.0122	0.5645	0.1479	0.0118	0.1597	27.8095	860.7674	888.5768	1.9728	0.0233	944.8354

	ROG	NOx	CO	SO2	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	1.93	10.42	15.21	18.55	21.24	8.91	21.01	21.24	8.66	20.43	0.00	13.77	13.40	0.18	0.00	12.71

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Hazardous Materials Abatement	Architectural Coating	1/1/2021	7/30/2021	5	151	
2	Selective Demolition	Demolition	8/1/2021	9/30/2021	5	44	
3	Interior Construction	Building Construction	10/1/2021	3/31/2022	5	130	
4	Interior Finishes	Architectural Coating	11/1/2021	3/31/2022	5	109	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.87

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,145; Non-Residential Outdoor: 56,715; Striped Parking Area: 2,328 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hazardous Materials Abatement	Aerial Lifts	2	8.00	63	0.31
Hazardous Materials Abatement	Air Compressors	0	0.00	78	0.48
Hazardous Materials Abatement	Dumpers/Tenders	1	8.00	16	0.38
Hazardous Materials Abatement	Forklifts	1	8.00	89	0.20
Hazardous Materials Abatement	Skid Steer Loaders	1	8.00	65	0.37
Selective Demolition	Aerial Lifts	2	8.00	63	0.31
Selective Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Selective Demolition	Forklifts	1	8.00	89	0.20
Selective Demolition	Off-Highway Trucks	1	8.00	402	0.38
Selective Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Selective Demolition	Skid Steer Loaders	1	8.00	65	0.37
Selective Demolition	Tractors/Loaders/Backhoes	0	0.00	97	0.37

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Interior Construction	Aerial Lifts	1	8.00	63	0.31
Interior Construction	Cement and Mortar Mixers	4	8.00	9	0.56
Interior Construction	Cranes	1	8.00	231	0.29
Interior Construction	Dumpers/Tenders	1	8.00	16	0.38
Interior Construction	Forklifts	1	8.00	89	0.20
Interior Construction	Generator Sets	0	0.00	84	0.74
Interior Construction	Other Construction Equipment	0	0.00	172	0.42
Interior Construction	Plate Compactors	2	8.00	8	0.43
Interior Construction	Pumps	2	8.00	84	0.74
Interior Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Interior Construction	Welders	0	0.00	46	0.45
Interior Finishes	Aerial Lifts	1	8.00	63	0.31
Interior Finishes	Air Compressors	0	0.00	78	0.48
Interior Finishes	Cement and Mortar Mixers	4	8.00	9	0.56
Interior Finishes	Dumpers/Tenders	1	8.00	16	0.38
Interior Finishes	Forklifts	1	8.00	89	0.20
Interior Finishes	Other Construction Equipment	0	0.00	172	0.42
Interior Finishes	Plate Compactors	2	8.00	8	0.43
Interior Finishes	Pumps	2	8.00	84	0.74

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
Hazardous Materials Abatement	5	60.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Selective Demolition	5	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Construction	12	80.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Finishes	11	80.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Hazardous Materials Abatement - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3015	50.3015	0.0154	0.0000	50.6857
Total	0.6262	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3015	50.3015	0.0154	0.0000	50.6857

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3.2 Hazardous Materials Abatement - 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	4.4300e-003	0.1397	0.0372	3.7000e-004	8.9400e-003	3.1000e-004	9.2500e-003	2.5800e-003	3.0000e-004	2.8800e-003	0.0000	35.2021	35.2021	1.5300e-003	0.0000	35.2405
Worker	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583
Total	0.0184	0.1493	0.1408	7.0000e-004	0.0449	5.4000e-004	0.0454	0.0121	5.1000e-004	0.0126	0.0000	64.9434	64.9434	2.2100e-003	0.0000	64.9987

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	0.5996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3014	50.3014	0.0154	0.0000	50.6856
Total	0.6262	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3014	50.3014	0.0154	0.0000	50.6856

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3.2 Hazardous Materials Abatement - 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	4.4300e-003	0.1397	0.0372	3.7000e-004	8.9400e-003	3.1000e-004	9.2500e-003	2.5800e-003	3.0000e-004	2.8800e-003	0.0000	35.2021	35.2021	1.5300e-003	0.0000	35.2405
Worker	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583
Total	0.0184	0.1493	0.1408	7.0000e-004	0.0449	5.4000e-004	0.0454	0.0121	5.1000e-004	0.0126	0.0000	64.9434	64.9434	2.2100e-003	0.0000	64.9987

3.3 Selective Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9580	38.9580	0.0126	0.0000	39.2730
Total	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9580	38.9580	0.0126	0.0000	39.2730

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3.3 Selective Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713
Total	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713

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	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9579	38.9579	0.0126	0.0000	39.2729
Total	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9579	38.9579	0.0126	0.0000	39.2729

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3.3 Selective Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713
Total	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713

3.4 Interior 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	0.0571	0.5111	0.4498	8.8000e-004		0.0245	0.0245		0.0237	0.0237	0.0000	73.2688	73.2688	0.0115	0.0000	73.5561
Total	0.0571	0.5111	0.4498	8.8000e-004		0.0245	0.0245		0.0237	0.0237	0.0000	73.2688	73.2688	0.0115	0.0000	73.5561

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3.4 Interior 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	1.9400e-003	0.0610	0.0163	1.6000e-004	3.9100e-003	1.4000e-004	4.0400e-003	1.1300e-003	1.3000e-004	1.2600e-003	0.0000	15.3864	15.3864	6.7000e-004	0.0000	15.4031
Worker	8.1300e-003	5.6300e-003	0.0604	1.9000e-004	0.0209	1.3000e-004	0.0211	5.5700e-003	1.2000e-004	5.6900e-003	0.0000	17.3327	17.3327	3.9000e-004	0.0000	17.3426
Total	0.0101	0.0667	0.0766	3.5000e-004	0.0249	2.7000e-004	0.0251	6.7000e-003	2.5000e-004	6.9500e-003	0.0000	32.7191	32.7191	1.0600e-003	0.0000	32.7457

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	0.0571	0.5111	0.4498	8.8000e-004		0.0245	0.0245		0.0237	0.0237	0.0000	73.2687	73.2687	0.0115	0.0000	73.5560
Total	0.0571	0.5111	0.4498	8.8000e-004		0.0245	0.0245		0.0237	0.0237	0.0000	73.2687	73.2687	0.0115	0.0000	73.5560

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3.4 Interior 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	1.9400e-003	0.0610	0.0163	1.6000e-004	3.9100e-003	1.4000e-004	4.0400e-003	1.1300e-003	1.3000e-004	1.2600e-003	0.0000	15.3864	15.3864	6.7000e-004	0.0000	15.4031
Worker	8.1300e-003	5.6300e-003	0.0604	1.9000e-004	0.0209	1.3000e-004	0.0211	5.5700e-003	1.2000e-004	5.6900e-003	0.0000	17.3327	17.3327	3.9000e-004	0.0000	17.3426
Total	0.0101	0.0667	0.0766	3.5000e-004	0.0249	2.7000e-004	0.0251	6.7000e-003	2.5000e-004	6.9500e-003	0.0000	32.7191	32.7191	1.0600e-003	0.0000	32.7457

3.4 Interior Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0517	0.4537	0.4323	8.5000e-004		0.0211	0.0211		0.0205	0.0205	0.0000	71.0511	71.0511	0.0110	0.0000	71.3265
Total	0.0517	0.4537	0.4323	8.5000e-004		0.0211	0.0211		0.0205	0.0205	0.0000	71.0511	71.0511	0.0110	0.0000	71.3265

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3.4 Interior Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7500e-003	0.0560	0.0148	1.5000e-004	3.7900e-003	1.1000e-004	3.9000e-003	1.1000e-003	1.1000e-004	1.2000e-003	0.0000	14.7774	14.7774	6.2000e-004	0.0000	14.7929
Worker	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055
Total	9.1100e-003	0.0609	0.0687	3.3000e-004	0.0241	2.3000e-004	0.0243	6.5000e-003	2.3000e-004	6.7100e-003	0.0000	30.9743	30.9743	9.6000e-004	0.0000	30.9984

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	0.0517	0.4537	0.4323	8.5000e-004		0.0211	0.0211		0.0205	0.0205	0.0000	71.0511	71.0511	0.0110	0.0000	71.3265
Total	0.0517	0.4537	0.4323	8.5000e-004		0.0211	0.0211		0.0205	0.0205	0.0000	71.0511	71.0511	0.0110	0.0000	71.3265

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3.4 Interior Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7500e-003	0.0560	0.0148	1.5000e-004	3.7900e-003	1.1000e-004	3.9000e-003	1.1000e-003	1.1000e-004	1.2000e-003	0.0000	14.7774	14.7774	6.2000e-004	0.0000	14.7929
Worker	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055
Total	9.1100e-003	0.0609	0.0687	3.3000e-004	0.0241	2.3000e-004	0.0243	6.5000e-003	2.3000e-004	6.7100e-003	0.0000	30.9743	30.9743	9.6000e-004	0.0000	30.9984

3.5 Interior Finishes - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2475					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0296	0.2394	0.2621	4.7000e-004		0.0123	0.0123		0.0121	0.0121	0.0000	38.5512	38.5512	4.1500e-003	0.0000	38.6549
Total	0.2771	0.2394	0.2621	4.7000e-004		0.0123	0.0123		0.0121	0.0121	0.0000	38.5512	38.5512	4.1500e-003	0.0000	38.6549

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3.5 Interior Finishes - 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	5.5500e-003	3.8400e-003	0.0412	1.3000e-004	0.0143	9.0000e-005	0.0144	3.8000e-003	8.0000e-005	3.8800e-003	0.0000	11.8178	11.8178	2.7000e-004	0.0000	11.8245
Total	5.5500e-003	3.8400e-003	0.0412	1.3000e-004	0.0143	9.0000e-005	0.0144	3.8000e-003	8.0000e-005	3.8800e-003	0.0000	11.8178	11.8178	2.7000e-004	0.0000	11.8245

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	0.2475					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0296	0.2394	0.2621	4.7000e-004		0.0123	0.0123		0.0121	0.0121	0.0000	38.5512	38.5512	4.1500e-003	0.0000	38.6548
Total	0.2771	0.2394	0.2621	4.7000e-004		0.0123	0.0123		0.0121	0.0121	0.0000	38.5512	38.5512	4.1500e-003	0.0000	38.6548

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3.5 Interior Finishes - 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	5.5500e-003	3.8400e-003	0.0412	1.3000e-004	0.0143	9.0000e-005	0.0144	3.8000e-003	8.0000e-005	3.8800e-003	0.0000	11.8178	11.8178	2.7000e-004	0.0000	11.8245
Total	5.5500e-003	3.8400e-003	0.0412	1.3000e-004	0.0143	9.0000e-005	0.0144	3.8000e-003	8.0000e-005	3.8800e-003	0.0000	11.8178	11.8178	2.7000e-004	0.0000	11.8245

3.5 Interior Finishes - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0398	0.3198	0.3717	6.7000e-004		0.0156	0.0156		0.0153	0.0153	0.0000	54.8283	54.8283	5.7700e-003	0.0000	54.9726
Total	0.3918	0.3198	0.3717	6.7000e-004		0.0156	0.0156		0.0153	0.0153	0.0000	54.8283	54.8283	5.7700e-003	0.0000	54.9726

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3.5 Interior Finishes - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055
Total	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055

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	0.3520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0398	0.3198	0.3717	6.7000e-004		0.0156	0.0156		0.0153	0.0153	0.0000	54.8283	54.8283	5.7700e-003	0.0000	54.9725
Total	0.3918	0.3198	0.3717	6.7000e-004		0.0156	0.0156		0.0153	0.0153	0.0000	54.8283	54.8283	5.7700e-003	0.0000	54.9725

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3.5 Interior Finishes - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055
Total	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

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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	0.1716	0.6982	1.8372	6.0800e-003	0.5523	5.2400e-003	0.5576	0.1479	4.8900e-003	0.1527	0.0000	557.1935	557.1935	0.0197	0.0000	557.6855
Unmitigated	0.1852	0.7901	2.1808	7.5900e-003	0.7013	6.4300e-003	0.7077	0.1877	6.0100e-003	0.1937	0.0000	694.6961	694.6961	0.0233	0.0000	695.2790

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,104.81	0.00	0.00	1,885,870	1,485,330
Parking Lot	0.00	0.00	0.00		
Total	1,104.81	0.00	0.00	1,885,870	1,485,330

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Parking Lot	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	0.0000	190.2474	0.0268	5.5400e-003	192.5682
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	0.0000	190.2474	0.0268	5.5400e-003	192.5682
NaturalGas Mitigated	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0885	99.0885	1.9000e-003	1.8200e-003	99.6774
NaturalGas Unmitigated	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0885	99.0885	1.9000e-003	1.8200e-003	99.6774

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.85685e+006	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0885	99.0885	1.9000e-003	1.8200e-003	99.6774
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0885	99.0885	1.9000e-003	1.8200e-003	99.6774

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.85685e+006	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0885	99.0885	1.9000e-003	1.8200e-003	99.6774
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0885	99.0885	1.9000e-003	1.8200e-003	99.6774

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	2.02246e+006	188.9784	0.0266	5.5000e-003	191.2838
Parking Lot	13580	1.2689	1.8000e-004	4.0000e-005	1.2844
Total		190.2474	0.0268	5.5400e-003	192.5682

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	2.02246e+006	188.9784	0.0266	5.5000e-003	191.2838
Parking Lot	13580	1.2689	1.8000e-004	4.0000e-005	1.2844
Total		190.2474	0.0268	5.5400e-003	192.5682

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	0.5057	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7600e-003	3.7600e-003	1.0000e-005	0.0000	4.0100e-003
Unmitigated	0.5057	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7600e-003	3.7600e-003	1.0000e-005	0.0000	4.0100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0600					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7600e-003	3.7600e-003	1.0000e-005	0.0000	4.0100e-003
Total	0.5057	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7600e-003	3.7600e-003	1.0000e-005	0.0000	4.0100e-003

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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	0.0600					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7600e-003	3.7600e-003	1.0000e-005	0.0000	4.0100e-003
Total	0.5057	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7600e-003	3.7600e-003	1.0000e-005	0.0000	4.0100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.6301	0.6589	0.0159	41.8493
Unmitigated	20.6301	0.6589	0.0159	41.8493

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	20.1603 / 12.3563	20.6301	0.6589	0.0159	41.8493
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		20.6301	0.6589	0.0159	41.8493

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	20.1603 / 12.3563	20.6301	0.6589	0.0159	41.8493
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		20.6301	0.6589	0.0159	41.8493

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.4135	1.2655	0.0000	53.0511
Unmitigated	21.4135	1.2655	0.0000	53.0511

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	105.49	21.4135	1.2655	0.0000	53.0511
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		21.4135	1.2655	0.0000	53.0511

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	105.49	21.4135	1.2655	0.0000	53.0511
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		21.4135	1.2655	0.0000	53.0511

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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**Former City Hall Alternative 2 Residential Reuse
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	97.00	Space	0.87	38,800.00	0
----- Apartments Mid Rise	108.00	----- Dwelling Unit	1.10	113,430.00	309

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Updated CO2 intensity based on PG&E 2020 CRSR

Land Use - Project specific acreage and square footage of building.

Construction Phase - Project specific schedule based on construction duration of 18-24 months.

Off-road Equipment - Concrete vibrator modeled as plate compactor.

Off-road Equipment - Project specific equipment.

Off-road Equipment - Vibratory roller modeled as plate compactor.

Off-road Equipment - Concrete vibrator modeled as plate compactor.

Off-road Equipment - Project specific equipment. Dump truck modeled as off-highway truck to account for potential off-haul.

Trips and VMT - Assumes maximum between 30-40 workers per day. Includes vendor truck trip rate based on CalEEMod default for residential land uses.

Vehicle Trips - Updated per 10th gen. ITE trip rates for approximately 822 daily vehicle trips.

Woodstoves - Assumes no woodstove or wood fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - Assumes watering twice per day per BAAQMD fugitive dust control.

Mobile Land Use Mitigation - Increases transit accessibility to adjacent Civic Center Station.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	151.00
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDays	200.00	173.00
tblConstructionPhase	NumDays	200.00	173.00
tblConstructionPhase	NumDays	20.00	44.00
tblFireplaces	NumberGas	16.50	35.00
tblFireplaces	NumberWood	18.70	0.00
tblLandUse	LandUseSquareFeet	108,000.00	113,430.00
tblLandUse	LotAcreage	2.84	1.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Selective Demolition
tblOffRoadEquipment	PhaseName		Alterations to Building Structure
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Alterations to Building Structure
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Alterations to Building Structure
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Selective Demolition
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Selective Demolition
tblOffRoadEquipment	PhaseName		Alterations to Building Structure
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Alterations to Building Structure
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Alterations to Building Structure
tblOffRoadEquipment	PhaseName		Interior Construction
tblOffRoadEquipment	PhaseName		Interior Finishes
tblOffRoadEquipment	PhaseName		Selective Demolition
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	18.00	12.00
tblTripsAndVMT	VendorTripNumber	18.00	12.00
tblTripsAndVMT	WorkerTripNumber	19.00	60.00
tblTripsAndVMT	WorkerTripNumber	13.00	60.00
tblTripsAndVMT	WorkerTripNumber	96.00	80.00
tblTripsAndVMT	WorkerTripNumber	96.00	80.00
tblTripsAndVMT	WorkerTripNumber	19.00	80.00
tblVehicleTrips	ST_TR	6.39	7.61
tblVehicleTrips	SU_TR	5.86	7.61
tblVehicleTrips	WD_TR	6.65	7.61
tblWoodstoves	NumberCatalytic	2.20	0.00
tblWoodstoves	NumberNoncatalytic	2.20	0.00

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.9607	1.3336	1.4380	3.2900e-003	0.0841	0.0532	0.1373	0.0226	0.0506	0.0732	0.0000	288.9859	288.9859	0.0478	0.0000	290.1797
2022	1.1404	2.6463	2.8884	6.3100e-003	0.1332	0.1167	0.2499	0.0357	0.1135	0.1492	0.0000	538.2848	538.2848	0.0618	0.0000	539.8306
Maximum	1.1404	2.6463	2.8884	6.3100e-003	0.1332	0.1167	0.2499	0.0357	0.1135	0.1492	0.0000	538.2848	538.2848	0.0618	0.0000	539.8306

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.9607	1.3336	1.4380	3.2900e-003	0.0841	0.0532	0.1373	0.0226	0.0506	0.0732	0.0000	288.9857	288.9857	0.0478	0.0000	290.1795
2022	1.1404	2.6463	2.8884	6.3100e-003	0.1332	0.1167	0.2499	0.0357	0.1135	0.1492	0.0000	538.2843	538.2843	0.0618	0.0000	539.8301
Maximum	1.1404	2.6463	2.8884	6.3100e-003	0.1332	0.1167	0.2499	0.0357	0.1135	0.1492	0.0000	538.2843	538.2843	0.0618	0.0000	539.8301

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.5304	0.5304
2	4-1-2021	6-30-2021	0.5346	0.5346
3	7-1-2021	9-30-2021	0.3906	0.3906
4	10-1-2021	12-31-2021	0.8254	0.8254
5	1-1-2022	3-31-2022	1.1114	1.1114
6	4-1-2022	6-30-2022	0.9367	0.9367
7	7-1-2022	9-30-2022	0.9659	0.9659
		Highest	1.1114	1.1114

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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	0.5509	0.0130	0.8046	7.0000e-005		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	5.6810	5.6810	1.3500e-003	8.0000e-005	5.7386
Energy	5.0300e-003	0.0430	0.0183	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	92.7219	92.7219	7.0000e-003	2.1600e-003	93.5415
Mobile	0.1750	0.6588	2.0563	7.3900e-003	0.7059	5.7400e-003	0.7117	0.1890	5.3500e-003	0.1943	0.0000	676.8303	676.8303	0.0216	0.0000	677.3697
Waste						0.0000	0.0000		0.0000	0.0000	10.2713	0.0000	10.2713	0.6070	0.0000	25.4468
Water						0.0000	0.0000		0.0000	0.0000	2.2737	5.1013	7.3750	0.2343	5.6600e-003	14.9189
Total	0.7309	0.7148	2.8792	7.7300e-003	0.7059	0.0140	0.7199	0.1890	0.0136	0.2025	12.5451	780.3345	792.8796	0.8712	7.9000e-003	817.0155

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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	0.5509	0.0130	0.8046	7.0000e-005		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	5.6810	5.6810	1.3500e-003	8.0000e-005	5.7386
Energy	5.0300e-003	0.0430	0.0183	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	92.7219	92.7219	7.0000e-003	2.1600e-003	93.5415
Mobile	0.1625	0.5889	1.7328	5.9300e-003	0.5560	4.6900e-003	0.5607	0.1488	4.3700e-003	0.1532	0.0000	543.2614	543.2614	0.0181	0.0000	543.7148
Waste						0.0000	0.0000		0.0000	0.0000	10.2713	0.0000	10.2713	0.6070	0.0000	25.4468
Water						0.0000	0.0000		0.0000	0.0000	2.2737	5.1013	7.3750	0.2343	5.6600e-003	14.9189
Total	0.7184	0.6449	2.5557	6.2700e-003	0.5560	0.0129	0.5689	0.1488	0.0126	0.1614	12.5451	646.7657	659.3108	0.8678	7.9000e-003	683.3606

	ROG	NOx	CO	SO2	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	1.70	9.78	11.24	18.89	21.24	7.52	20.97	21.24	7.22	20.30	0.00	17.12	16.85	0.40	0.00	16.36

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Hazardous Materials Abatement	Architectural Coating	1/1/2021	7/30/2021	5	151	
2	Selective Demolition	Demolition	8/1/2021	9/30/2021	5	44	
3	Alterations to Building Structure	Building Construction	10/1/2021	5/31/2022	5	173	
4	Interior Construction	Building Construction	12/1/2021	7/29/2022	5	173	
5	Interior Finishes	Architectural Coating	7/1/2022	12/30/2022	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.87

Residential Indoor: 229,696; Residential Outdoor: 76,565; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,328 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hazardous Materials Abatement	Aerial Lifts	2	8.00	63	0.31
Hazardous Materials Abatement	Air Compressors	0	0.00	78	0.48
Hazardous Materials Abatement	Dumpers/Tenders	1	8.00	16	0.38
Hazardous Materials Abatement	Forklifts	1	8.00	89	0.20
Hazardous Materials Abatement	Skid Steer Loaders	1	8.00	65	0.37
Selective Demolition	Aerial Lifts	2	8.00	63	0.31
Selective Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Selective Demolition	Forklifts	1	8.00	89	0.20
Selective Demolition	Off-Highway Trucks	1	8.00	402	0.38
Selective Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Selective Demolition	Skid Steer Loaders	1	8.00	65	0.37

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Selective Demolition	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Alterations to Building Structure	Aerial Lifts	2	8.00	63	0.31
Alterations to Building Structure	Cement and Mortar Mixers	2	8.00	9	0.56
Alterations to Building Structure	Cranes	1	8.00	231	0.29
Alterations to Building Structure	Dumpers/Tenders	1	8.00	16	0.38
Alterations to Building Structure	Forklifts	1	8.00	89	0.20
Alterations to Building Structure	Generator Sets	0	0.00	84	0.74
Alterations to Building Structure	Other Construction Equipment	0	0.00	172	0.42
Alterations to Building Structure	Plate Compactors	2	8.00	8	0.43
Alterations to Building Structure	Pumps	2	8.00	84	0.74
Alterations to Building Structure	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Alterations to Building Structure	Welders	0	0.00	46	0.45
Interior Construction	Aerial Lifts	1	8.00	63	0.31
Interior Construction	Cement and Mortar Mixers	4	8.00	9	0.56
Interior Construction	Cranes	1	8.00	231	0.29
Interior Construction	Dumpers/Tenders	1	8.00	16	0.38
Interior Construction	Forklifts	1	8.00	89	0.20
Interior Construction	Generator Sets	0	0.00	84	0.74
Interior Construction	Other Construction Equipment	0	0.00	172	0.42
Interior Construction	Plate Compactors	2	8.00	8	0.43
Interior Construction	Pumps	2	8.00	84	0.74
Interior Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Interior Construction	Welders	0	0.00	46	0.45
Interior Finishes	Aerial Lifts	1	8.00	63	0.31
Interior Finishes	Air Compressors	0	0.00	78	0.48
Interior Finishes	Cement and Mortar Mixers	4	8.00	9	0.56
Interior Finishes	Dumpers/Tenders	1	8.00	16	0.38

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Interior Finishes	Forklifts	1	8.00	89	0.20
Interior Finishes	Plate Compactors	2	8.00	8	0.43
Interior Finishes	Pumps	2	8.00	84	0.74

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
Hazardous Materials Abatement	5	60.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Selective Demolition	5	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Alterations to Building Structure	11	80.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Construction	12	80.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Finishes	11	80.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Hazardous Materials Abatement - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8066					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3015	50.3015	0.0154	0.0000	50.6857
Total	0.8332	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3015	50.3015	0.0154	0.0000	50.6857

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9500e-003	0.0931	0.0248	2.4000e-004	5.9600e-003	2.1000e-004	6.1700e-003	1.7200e-003	2.0000e-004	1.9200e-003	0.0000	23.4681	23.4681	1.0200e-003	0.0000	23.4936
Worker	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583
Total	0.0169	0.1028	0.1284	5.7000e-004	0.0419	4.4000e-004	0.0423	0.0113	4.1000e-004	0.0117	0.0000	53.2094	53.2094	1.7000e-003	0.0000	53.2519

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3.2 Hazardous Materials Abatement - 2021

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	0.8066					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3014	50.3014	0.0154	0.0000	50.6856
Total	0.8332	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3014	50.3014	0.0154	0.0000	50.6856

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	2.9500e-003	0.0931	0.0248	2.4000e-004	5.9600e-003	2.1000e-004	6.1700e-003	1.7200e-003	2.0000e-004	1.9200e-003	0.0000	23.4681	23.4681	1.0200e-003	0.0000	23.4936
Worker	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583
Total	0.0169	0.1028	0.1284	5.7000e-004	0.0419	4.4000e-004	0.0423	0.0113	4.1000e-004	0.0117	0.0000	53.2094	53.2094	1.7000e-003	0.0000	53.2519

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3.3 Selective Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9580	38.9580	0.0126	0.0000	39.2730
Total	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9580	38.9580	0.0126	0.0000	39.2730

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	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713
Total	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713

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3.3 Selective Demolition - 2021

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	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9579	38.9579	0.0126	0.0000	39.2729
Total	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9579	38.9579	0.0126	0.0000	39.2729

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	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713
Total	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713

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3.4 Alterations to Building Structure - 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	0.0544	0.5067	0.4656	8.9000e-004		0.0239	0.0239		0.0231	0.0231	0.0000	75.1125	75.1125	0.0128	0.0000	75.4313
Total	0.0544	0.5067	0.4656	8.9000e-004		0.0239	0.0239		0.0231	0.0231	0.0000	75.1125	75.1125	0.0128	0.0000	75.4313

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	1.2900e-003	0.0407	0.0108	1.1000e-004	2.6100e-003	9.0000e-005	2.7000e-003	7.5000e-004	9.0000e-005	8.4000e-004	0.0000	10.2576	10.2576	4.5000e-004	0.0000	10.2687
Worker	8.1300e-003	5.6300e-003	0.0604	1.9000e-004	0.0209	1.3000e-004	0.0211	5.5700e-003	1.2000e-004	5.6900e-003	0.0000	17.3327	17.3327	3.9000e-004	0.0000	17.3426
Total	9.4200e-003	0.0463	0.0712	3.0000e-004	0.0236	2.2000e-004	0.0238	6.3200e-003	2.1000e-004	6.5300e-003	0.0000	27.5903	27.5903	8.4000e-004	0.0000	27.6113

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3.4 Alterations to Building Structure - 2021

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	0.0544	0.5067	0.4656	8.9000e-004		0.0239	0.0239		0.0231	0.0231	0.0000	75.1125	75.1125	0.0128	0.0000	75.4312
Total	0.0544	0.5067	0.4656	8.9000e-004		0.0239	0.0239		0.0231	0.0231	0.0000	75.1125	75.1125	0.0128	0.0000	75.4312

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	1.2900e-003	0.0407	0.0108	1.1000e-004	2.6100e-003	9.0000e-005	2.7000e-003	7.5000e-004	9.0000e-005	8.4000e-004	0.0000	10.2576	10.2576	4.5000e-004	0.0000	10.2687
Worker	8.1300e-003	5.6300e-003	0.0604	1.9000e-004	0.0209	1.3000e-004	0.0211	5.5700e-003	1.2000e-004	5.6900e-003	0.0000	17.3327	17.3327	3.9000e-004	0.0000	17.3426
Total	9.4200e-003	0.0463	0.0712	3.0000e-004	0.0236	2.2000e-004	0.0238	6.3200e-003	2.1000e-004	6.5300e-003	0.0000	27.5903	27.5903	8.4000e-004	0.0000	27.6113

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3.4 Alterations to Building Structure - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0821	0.7491	0.7483	1.4400e-003		0.0343	0.0343		0.0332	0.0332	0.0000	121.7777	121.7777	0.0205	0.0000	122.2892
Total	0.0821	0.7491	0.7483	1.4400e-003		0.0343	0.0343		0.0332	0.0332	0.0000	121.7777	121.7777	0.0205	0.0000	122.2892

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	1.9500e-003	0.0624	0.0165	1.7000e-004	4.2200e-003	1.3000e-004	4.3500e-003	1.2200e-003	1.2000e-004	1.3400e-003	0.0000	16.4706	16.4706	6.9000e-004	0.0000	16.4879
Worker	0.0123	8.1900e-003	0.0900	3.0000e-004	0.0340	2.1000e-004	0.0342	9.0300e-003	1.9000e-004	9.2200e-003	0.0000	27.0793	27.0793	5.7000e-004	0.0000	27.0936
Total	0.0143	0.0706	0.1065	4.7000e-004	0.0382	3.4000e-004	0.0385	0.0103	3.1000e-004	0.0106	0.0000	43.5499	43.5499	1.2600e-003	0.0000	43.5815

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3.4 Alterations to Building Structure - 2022

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	0.0821	0.7491	0.7483	1.4400e-003		0.0343	0.0343		0.0332	0.0332	0.0000	121.7776	121.7776	0.0205	0.0000	122.2891
Total	0.0821	0.7491	0.7483	1.4400e-003		0.0343	0.0343		0.0332	0.0332	0.0000	121.7776	121.7776	0.0205	0.0000	122.2891

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	1.9500e-003	0.0624	0.0165	1.7000e-004	4.2200e-003	1.3000e-004	4.3500e-003	1.2200e-003	1.2000e-004	1.3400e-003	0.0000	16.4706	16.4706	6.9000e-004	0.0000	16.4879
Worker	0.0123	8.1900e-003	0.0900	3.0000e-004	0.0340	2.1000e-004	0.0342	9.0300e-003	1.9000e-004	9.2200e-003	0.0000	27.0793	27.0793	5.7000e-004	0.0000	27.0936
Total	0.0143	0.0706	0.1065	4.7000e-004	0.0382	3.4000e-004	0.0385	0.0103	3.1000e-004	0.0106	0.0000	43.5499	43.5499	1.2600e-003	0.0000	43.5815

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3.5 Interior 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	0.0199	0.1781	0.1568	3.1000e-004		8.5300e-003	8.5300e-003		8.2600e-003	8.2600e-003	0.0000	25.5331	25.5331	4.0000e-003	0.0000	25.6332
Total	0.0199	0.1781	0.1568	3.1000e-004		8.5300e-003	8.5300e-003		8.2600e-003	8.2600e-003	0.0000	25.5331	25.5331	4.0000e-003	0.0000	25.6332

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	4.5000e-004	0.0142	3.7700e-003	4.0000e-005	9.1000e-004	3.0000e-005	9.4000e-004	2.6000e-004	3.0000e-005	2.9000e-004	0.0000	3.5746	3.5746	1.6000e-004	0.0000	3.5785
Worker	2.8300e-003	1.9600e-003	0.0211	7.0000e-005	7.3000e-003	5.0000e-005	7.3400e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	6.0402	6.0402	1.4000e-004	0.0000	6.0436
Total	3.2800e-003	0.0161	0.0248	1.1000e-004	8.2100e-003	8.0000e-005	8.2800e-003	2.2000e-003	7.0000e-005	2.2700e-003	0.0000	9.6148	9.6148	3.0000e-004	0.0000	9.6221

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3.5 Interior Construction - 2021

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	0.0199	0.1781	0.1568	3.1000e-004		8.5300e-003	8.5300e-003		8.2600e-003	8.2600e-003	0.0000	25.5330	25.5330	4.0000e-003	0.0000	25.6332
Total	0.0199	0.1781	0.1568	3.1000e-004		8.5300e-003	8.5300e-003		8.2600e-003	8.2600e-003	0.0000	25.5330	25.5330	4.0000e-003	0.0000	25.6332

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	4.5000e-004	0.0142	3.7700e-003	4.0000e-005	9.1000e-004	3.0000e-005	9.4000e-004	2.6000e-004	3.0000e-005	2.9000e-004	0.0000	3.5746	3.5746	1.6000e-004	0.0000	3.5785
Worker	2.8300e-003	1.9600e-003	0.0211	7.0000e-005	7.3000e-003	5.0000e-005	7.3400e-003	1.9400e-003	4.0000e-005	1.9800e-003	0.0000	6.0402	6.0402	1.4000e-004	0.0000	6.0436
Total	3.2800e-003	0.0161	0.0248	1.1000e-004	8.2100e-003	8.0000e-005	8.2800e-003	2.2000e-003	7.0000e-005	2.2700e-003	0.0000	9.6148	9.6148	3.0000e-004	0.0000	9.6221

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3.5 Interior Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1211	1.0633	1.0132	2.0000e-003		0.0495	0.0495		0.0479	0.0479	0.0000	166.5261	166.5261	0.0258	0.0000	167.1716
Total	0.1211	1.0633	1.0132	2.0000e-003		0.0495	0.0495		0.0479	0.0479	0.0000	166.5261	166.5261	0.0258	0.0000	167.1716

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7400e-003	0.0874	0.0232	2.4000e-004	5.9200e-003	1.8000e-004	6.1000e-003	1.7100e-003	1.7000e-004	1.8800e-003	0.0000	23.0896	23.0896	9.7000e-004	0.0000	23.1139
Worker	0.0173	0.0115	0.1262	4.2000e-004	0.0476	2.9000e-004	0.0479	0.0127	2.7000e-004	0.0129	0.0000	37.9616	37.9616	8.0000e-004	0.0000	37.9817
Total	0.0200	0.0989	0.1493	6.6000e-004	0.0535	4.7000e-004	0.0540	0.0144	4.4000e-004	0.0148	0.0000	61.0512	61.0512	1.7700e-003	0.0000	61.0956

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3.5 Interior Construction - 2022

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	0.1211	1.0633	1.0132	2.0000e-003		0.0495	0.0495		0.0479	0.0479	0.0000	166.5259	166.5259	0.0258	0.0000	167.1714
Total	0.1211	1.0633	1.0132	2.0000e-003		0.0495	0.0495		0.0479	0.0479	0.0000	166.5259	166.5259	0.0258	0.0000	167.1714

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	2.7400e-003	0.0874	0.0232	2.4000e-004	5.9200e-003	1.8000e-004	6.1000e-003	1.7100e-003	1.7000e-004	1.8800e-003	0.0000	23.0896	23.0896	9.7000e-004	0.0000	23.1139
Worker	0.0173	0.0115	0.1262	4.2000e-004	0.0476	2.9000e-004	0.0479	0.0127	2.7000e-004	0.0129	0.0000	37.9616	37.9616	8.0000e-004	0.0000	37.9817
Total	0.0200	0.0989	0.1493	6.6000e-004	0.0535	4.7000e-004	0.0540	0.0144	4.4000e-004	0.0148	0.0000	61.0512	61.0512	1.7700e-003	0.0000	61.0956

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3.6 Interior Finishes - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8066					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0814	0.6545	0.7609	1.3700e-003		0.0318	0.0318		0.0314	0.0314	0.0000	112.2268	112.2268	0.0118	0.0000	112.5220
Total	0.8879	0.6545	0.7609	1.3700e-003		0.0318	0.0318		0.0314	0.0314	0.0000	112.2268	112.2268	0.0118	0.0000	112.5220

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	0.0151	0.0100	0.1102	3.7000e-004	0.0416	2.6000e-004	0.0418	0.0111	2.4000e-004	0.0113	0.0000	33.1532	33.1532	7.0000e-004	0.0000	33.1707
Total	0.0151	0.0100	0.1102	3.7000e-004	0.0416	2.6000e-004	0.0418	0.0111	2.4000e-004	0.0113	0.0000	33.1532	33.1532	7.0000e-004	0.0000	33.1707

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3.6 Interior Finishes - 2022

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	0.8066					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0814	0.6545	0.7609	1.3700e-003		0.0318	0.0318		0.0314	0.0314	0.0000	112.2266	112.2266	0.0118	0.0000	112.5218
Total	0.8879	0.6545	0.7609	1.3700e-003		0.0318	0.0318		0.0314	0.0314	0.0000	112.2266	112.2266	0.0118	0.0000	112.5218

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	0.0151	0.0100	0.1102	3.7000e-004	0.0416	2.6000e-004	0.0418	0.0111	2.4000e-004	0.0113	0.0000	33.1532	33.1532	7.0000e-004	0.0000	33.1707
Total	0.0151	0.0100	0.1102	3.7000e-004	0.0416	2.6000e-004	0.0418	0.0111	2.4000e-004	0.0113	0.0000	33.1532	33.1532	7.0000e-004	0.0000	33.1707

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	0.1625	0.5889	1.7328	5.9300e-003	0.5560	4.6900e-003	0.5607	0.1488	4.3700e-003	0.1532	0.0000	543.2614	543.2614	0.0181	0.0000	543.7148
Unmitigated	0.1750	0.6588	2.0563	7.3900e-003	0.7059	5.7400e-003	0.7117	0.1890	5.3500e-003	0.1943	0.0000	676.8303	676.8303	0.0216	0.0000	677.3697

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	821.99	821.99	821.99	1,898,469	1,495,254
Parking Lot	0.00	0.00	0.00		
Total	821.99	821.99	821.99	1,898,469	1,495,254

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Parking Lot	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	42.9303	42.9303	6.0400e-003	1.2500e-003	43.4540
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	42.9303	42.9303	6.0400e-003	1.2500e-003	43.4540
NaturalGas Mitigated	5.0300e-003	0.0430	0.0183	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.7917	49.7917	9.5000e-004	9.1000e-004	50.0876
NaturalGas Unmitigated	5.0300e-003	0.0430	0.0183	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.7917	49.7917	9.5000e-004	9.1000e-004	50.0876

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	933061	5.0300e-003	0.0430	0.0183	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.7917	49.7917	9.5000e-004	9.1000e-004	50.0876
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.0300e-003	0.0430	0.0183	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.7917	49.7917	9.5000e-004	9.1000e-004	50.0876

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	933061	5.0300e-003	0.0430	0.0183	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.7917	49.7917	9.5000e-004	9.1000e-004	50.0876
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.0300e-003	0.0430	0.0183	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.7917	49.7917	9.5000e-004	9.1000e-004	50.0876

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	445862	41.6613	5.8600e-003	1.2100e-003	42.1696
Parking Lot	13580	1.2689	1.8000e-004	4.0000e-005	1.2844
Total		42.9303	6.0400e-003	1.2500e-003	43.4540

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	445862	41.6613	5.8600e-003	1.2100e-003	42.1696
Parking Lot	13580	1.2689	1.8000e-004	4.0000e-005	1.2844
Total		42.9303	6.0400e-003	1.2500e-003	43.4540

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	0.5509	0.0130	0.8046	7.0000e-005		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	5.6810	5.6810	1.3500e-003	8.0000e-005	5.7386
Unmitigated	0.5509	0.0130	0.8046	7.0000e-005		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	5.6810	5.6810	1.3500e-003	8.0000e-005	5.7386

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	0.0807					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.4000e-004	3.7700e-003	1.6100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.3694	4.3694	8.0000e-005	8.0000e-005	4.3953
Landscaping	0.0243	9.2500e-003	0.8030	4.0000e-005		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	1.3116	1.3116	1.2600e-003	0.0000	1.3433
Total	0.5509	0.0130	0.8046	6.0000e-005		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	5.6810	5.6810	1.3400e-003	8.0000e-005	5.7386

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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	0.0807					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.4000e-004	3.7700e-003	1.6100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.3694	4.3694	8.0000e-005	8.0000e-005	4.3953
Landscaping	0.0243	9.2500e-003	0.8030	4.0000e-005		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	1.3116	1.3116	1.2600e-003	0.0000	1.3433
Total	0.5509	0.0130	0.8046	6.0000e-005		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	5.6810	5.6810	1.3400e-003	8.0000e-005	5.7386

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.3750	0.2343	5.6600e-003	14.9189
Unmitigated	7.3750	0.2343	5.6600e-003	14.9189

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.16694 / 4.51829	7.3750	0.2343	5.6600e-003	14.9189
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		7.3750	0.2343	5.6600e-003	14.9189

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.16694 / 4.51829	7.3750	0.2343	5.6600e-003	14.9189
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		7.3750	0.2343	5.6600e-003	14.9189

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.2713	0.6070	0.0000	25.4468
Unmitigated	10.2713	0.6070	0.0000	25.4468

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	50.6	10.2713	0.6070	0.0000	25.4468
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		10.2713	0.6070	0.0000	25.4468

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	50.6	10.2713	0.6070	0.0000	25.4468
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		10.2713	0.6070	0.0000	25.4468

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

FCH Alternative 3 Office Reuse and New Residential - Santa Clara County, Annual

**FCH Alternative 3 Office Reuse and New Residential
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	113.43	1000sqft	1.10	113,430.00	0
Other Asphalt Surfaces	116.00	1000sqft	2.66	116,000.00	0
Parking Lot	97.00	Space	0.87	38,800.00	0
Apartments Mid Rise	100.00	Dwelling Unit	0.30	34,000.00	286

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	206	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Updated CO2 intensity per PG&E 2020 CRSR

Land Use - Project specific land uses.

Construction Phase - Project specific phases.

Off-road Equipment - Project specific equipment.

Off-road Equipment - Plate compactors to account for concrete vibrators.

Off-road Equipment - Plate compactor to account for concrete vibrator

Off-road Equipment - Plate compactor to account for concrete vibrator

Off-road Equipment - Plate compactor to account for concrete vibrator

Off-road Equipment - Project specific equipment. Dump truck modeled as off-highway truck to account for potential off-haul

Off-road Equipment - Plate compactors to account for compactor, vibrator, and concrete vibrator. Water truck modeled as off highway truck.

Off-road Equipment - Off highway truck to account for water truck. Bobcats modeled as skid steer loader. Roller is compactor

Off-road Equipment - Plate compactor to account for concrete vibrator

Trips and VMT - Assumes 320 haul truck trips. Project specific workers. Abatement vendor truck trips based on default vendor truck trip rate for commercial land uses.

Grading - Assumes similar material export as proposed project for foundation.

Vehicle Trips - Updated consistent with 10th gen ITE trip rates. Govt office land use, assumes no weekend trips.

Woodstoves - Assumes no woodstoves or wood fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - Assumes watering twice per day per BAAQMD fugitive dust control requirements.

Mobile Land Use Mitigation - Increases transit accessibility to adjacent VTA Civic Center Station.

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	8.00	130.00
tblConstructionPhase	NumDays	18.00	85.00
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tblFireplaces	NumberWood	17.00	0.00
tblGrading	AcresOfGrading	0.00	4.00
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tblLandUse	LandUseSquareFeet	100,000.00	34,000.00
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tblOffRoadEquipment	PhaseName	Superstructure

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tblTripsAndVMT	WorkerTripNumber	28.00	30.00
tblVehicleTrips	ST_TR	6.39	5.44
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	5.86	5.44
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	6.65	5.44
tblVehicleTrips	WD_TR	11.03	9.74
tblWoodstoves	NumberCatalytic	2.00	0.00

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tblWoodstoves	:	NumberNoncatalytic	:	2.00	:	0.00
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	1.3912	1.4805	1.5688	3.7200e-003	0.0962	0.0577	0.1538	0.0259	0.0552	0.0811	0.0000	325.9090	325.9090	0.0476	0.0000	327.0999
2022	0.9190	3.6480	3.7540	9.3600e-003	0.1529	0.1433	0.2962	0.0411	0.1380	0.1792	0.0000	815.7813	815.7813	0.1240	0.0000	818.8817
2023	0.2383	2.2541	2.1430	6.0400e-003	0.1295	0.0768	0.2063	0.0355	0.0743	0.1098	0.0000	533.7951	533.7951	0.0543	0.0000	535.1519
2024	1.0970	1.8881	2.2112	5.0700e-003	0.0974	0.0744	0.1718	0.0263	0.0717	0.0979	0.0000	436.9200	436.9200	0.0595	0.0000	438.4084
2025	0.0516	0.4293	0.5172	1.0700e-003	5.1200e-003	0.0184	0.0235	1.3600e-003	0.0170	0.0183	0.0000	93.8899	93.8899	0.0290	0.0000	94.6149
Maximum	1.3912	3.6480	3.7540	9.3600e-003	0.1529	0.1433	0.2962	0.0411	0.1380	0.1792	0.0000	815.7813	815.7813	0.1240	0.0000	818.8817

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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					
2021	1.3912	1.4805	1.5688	3.7200e-003	0.0962	0.0577	0.1538	0.0259	0.0552	0.0811	0.0000	325.9088	325.9088	0.0476	0.0000	327.0997
2022	0.9190	3.6480	3.7540	9.3600e-003	0.1516	0.1433	0.2950	0.0410	0.1380	0.1790	0.0000	815.7806	815.7806	0.1240	0.0000	818.8810
2023	0.2383	2.2541	2.1430	6.0400e-003	0.1295	0.0768	0.2063	0.0355	0.0743	0.1098	0.0000	533.7948	533.7948	0.0543	0.0000	535.1515
2024	1.0970	1.8881	2.2112	5.0700e-003	0.0974	0.0744	0.1718	0.0263	0.0717	0.0979	0.0000	436.9196	436.9196	0.0595	0.0000	438.4080
2025	0.0516	0.4293	0.5172	1.0700e-003	5.1200e-003	0.0184	0.0235	1.3600e-003	0.0170	0.0183	0.0000	93.8898	93.8898	0.0290	0.0000	94.6148
Maximum	1.3912	3.6480	3.7540	9.3600e-003	0.1516	0.1433	0.2950	0.0410	0.1380	0.1790	0.0000	815.7806	815.7806	0.1240	0.0000	818.8810

	ROG	NOx	CO	SO2	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	0.26	0.00	0.15	0.11	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.5136	0.5136
2	4-1-2021	6-30-2021	0.5181	0.5181
3	7-1-2021	9-30-2021	0.4263	0.4263
4	10-1-2021	12-31-2021	1.3879	1.3879
5	1-1-2022	3-31-2022	2.3750	2.3750
6	4-1-2022	6-30-2022	0.8003	0.8003

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7	7-1-2022	9-30-2022	0.7031	0.7031
8	10-1-2022	12-31-2022	0.7052	0.7052
9	1-1-2023	3-31-2023	0.6127	0.6127
10	4-1-2023	6-30-2023	0.6172	0.6172
11	7-1-2023	9-30-2023	0.6333	0.6333
12	10-1-2023	12-31-2023	0.6357	0.6357
13	1-1-2024	3-31-2024	0.5996	0.5996
14	4-1-2024	6-30-2024	0.6694	0.6694
15	7-1-2024	9-30-2024	0.7143	0.7143
16	10-1-2024	12-31-2024	1.0119	1.0119
17	1-1-2025	3-31-2025	0.4716	0.4716
		Highest	2.3750	2.3750

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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	0.6951	0.0120	0.7463	6.0000e-005		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	5.2136	5.2136	1.2500e-003	7.0000e-005	5.2667
Energy	0.0147	0.1308	0.0934	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	374.0146	374.0146	0.0350	9.3300e-003	377.6688
Mobile	0.2412	0.9682	2.8137	0.0111	1.1683	8.6500e-003	1.1770	0.3127	8.0400e-003	0.3207	0.0000	1,017.3212	1,017.3212	0.0306	0.0000	1,018.0862
Waste						0.0000	0.0000		0.0000	0.0000	30.7511	0.0000	30.7511	1.8173	0.0000	76.1846
Water						0.0000	0.0000		0.0000	0.0000	8.4630	18.8717	27.3347	0.8719	0.0211	55.4119
Total	0.9510	1.1111	3.6534	0.0119	1.1683	0.0232	1.1915	0.3127	0.0226	0.3353	39.2141	1,415.4211	1,454.6351	2.7561	0.0305	1,532.6182

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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	0.6951	0.0120	0.7463	6.0000e-005		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	5.2136	5.2136	1.2500e-003	7.0000e-005	5.2667
Energy	0.0147	0.1308	0.0934	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	374.0146	374.0146	0.0350	9.3300e-003	377.6688
Mobile	0.2233	0.8724	2.3631	8.8900e-003	0.9202	7.0800e-003	0.9272	0.2463	6.5800e-003	0.2529	0.0000	816.9526	816.9526	0.0257	0.0000	817.5939
Waste						0.0000	0.0000		0.0000	0.0000	30.7511	0.0000	30.7511	1.8173	0.0000	76.1846
Water						0.0000	0.0000		0.0000	0.0000	8.4630	18.8717	27.3347	0.8719	0.0211	55.4119
Total	0.9331	1.0152	3.2027	9.7500e-003	0.9202	0.0216	0.9418	0.2463	0.0211	0.2674	39.2141	1,215.0524	1,254.2665	2.7511	0.0305	1,332.1259

	ROG	NOx	CO	SO2	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	1.88	8.63	12.34	18.34	21.24	6.77	20.96	21.24	6.46	20.25	0.00	14.16	13.77	0.18	0.00	13.08

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Hazardous Materials Abatement	Architectural Coating	1/1/2021	7/30/2021	5	151	
2	Selective Demolition	Demolition	8/1/2021	9/30/2021	5	44	
3	Interior Construction 1	Building Construction	10/1/2021	3/31/2022	5	130	
4	Interior Finishes 1	Architectural Coating	11/1/2021	3/31/2022	5	109	
5	Site Clearance	Grading	1/1/2022	7/1/2022	5	130	
6	Superstructure	Building Construction	7/2/2022	6/30/2023	5	260	
7	Interior Construction 2	Building Construction	7/1/2023	5/1/2024	5	218	
8	Interior Finishes 2	Architectural Coating	5/2/2024	12/2/2024	5	153	
9	Site Work	Paving	11/2/2024	2/28/2025	5	85	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.53

Residential Indoor: 68,850; Residential Outdoor: 22,950; Non-Residential Indoor: 170,145; Non-Residential Outdoor: 56,715; Striped Parking Area: 9,288 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hazardous Materials Abatement	Aerial Lifts	2	8.00	63	0.31
Hazardous Materials Abatement	Air Compressors	0	0.00	78	0.48
Hazardous Materials Abatement	Dumpers/Tenders	1	8.00	16	0.38
Hazardous Materials Abatement	Forklifts	1	8.00	89	0.20
Hazardous Materials Abatement	Skid Steer Loaders	1	8.00	65	0.37
Selective Demolition	Aerial Lifts	2	8.00	63	0.31
Selective Demolition	Concrete/Industrial Saws	0	0.00	81	0.73

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Selective Demolition	Excavators	0	0.00	158	0.38
Selective Demolition	Forklifts	1	8.00	89	0.20
Selective Demolition	Off-Highway Trucks	1	8.00	402	0.38
Selective Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Selective Demolition	Skid Steer Loaders	1	8.00	65	0.37
Interior Construction 1	Aerial Lifts	1	8.00	63	0.31
Interior Construction 1	Cement and Mortar Mixers	4	8.00	9	0.56
Interior Construction 1	Cranes	1	8.00	231	0.29
Interior Construction 1	Dumpers/Tenders	1	8.00	16	0.38
Interior Construction 1	Forklifts	1	8.00	89	0.20
Interior Construction 1	Generator Sets	0	0.00	84	0.74
Interior Construction 1	Plate Compactors	2	8.00	8	0.43
Interior Construction 1	Pumps	2	8.00	84	0.74
Interior Construction 1	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Interior Construction 1	Welders	0	0.00	46	0.45
Interior Finishes 1	Aerial Lifts	1	8.00	63	0.31
Interior Finishes 1	Air Compressors	0	0.00	78	0.48
Interior Finishes 1	Cement and Mortar Mixers	4	8.00	9	0.56
Interior Finishes 1	Dumpers/Tenders	1	8.00	16	0.38
Interior Finishes 1	Forklifts	1	8.00	89	0.20
Interior Finishes 1	Plate Compactors	2	8.00	8	0.43
Interior Finishes 1	Pumps	2	8.00	84	0.74
Site Clearance	Bore/Drill Rigs	1	8.00	221	0.50
Site Clearance	Cement and Mortar Mixers	2	8.00	9	0.56
Site Clearance	Dumpers/Tenders	1	8.00	16	0.38
Site Clearance	Excavators	1	8.00	158	0.38
Site Clearance	Graders	0	0.00	187	0.41

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Site Clearance	Off-Highway Trucks	1	8.00	402	0.38
Site Clearance	Plate Compactors	4	8.00	8	0.43
Site Clearance	Pumps	2	8.00	84	0.74
Site Clearance	Rubber Tired Dozers	0	0.00	247	0.40
Site Clearance	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Superstructure	Aerial Lifts	2	8.00	63	0.31
Superstructure	Cement and Mortar Mixers	2	8.00	9	0.56
Superstructure	Cranes	1	8.00	231	0.29
Superstructure	Dumpers/Tenders	1	8.00	16	0.38
Superstructure	Forklifts	1	8.00	89	0.20
Superstructure	Generator Sets	0	0.00	84	0.74
Superstructure	Plate Compactors	2	8.00	8	0.43
Superstructure	Pumps	2	8.00	84	0.74
Superstructure	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Superstructure	Welders	0	0.00	46	0.45
Interior Construction 2	Aerial Lifts	1	8.00	63	0.31
Interior Construction 2	Cement and Mortar Mixers	4	8.00	9	0.56
Interior Construction 2	Cranes	1	8.00	231	0.29
Interior Construction 2	Dumpers/Tenders	1	8.00	16	0.38
Interior Construction 2	Forklifts	1	8.00	89	0.20
Interior Construction 2	Generator Sets	0	0.00	84	0.74
Interior Construction 2	Plate Compactors	2	8.00	8	0.43
Interior Construction 2	Pumps	2	8.00	84	0.74
Interior Construction 2	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Interior Construction 2	Welders	0	0.00	46	0.45
Interior Finishes 2	Aerial Lifts	1	8.00	63	0.31
Interior Finishes 2	Air Compressors	0	0.00	78	0.48

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Interior Finishes 2	Cement and Mortar Mixers	4	8.00	9	0.56
Interior Finishes 2	Dumpers/Tenders	1	8.00	16	0.38
Interior Finishes 2	Forklifts	1	8.00	89	0.20
Interior Finishes 2	Plate Compactors	2	8.00	8	0.43
Interior Finishes 2	Pumps	2	8.00	84	0.74
Site Work	Cement and Mortar Mixers	0	0.00	9	0.56
Site Work	Dumpers/Tenders	1	8.00	16	0.38
Site Work	Excavators	1	8.00	158	0.38
Site Work	Off-Highway Trucks	1	8.00	402	0.38
Site Work	Pavers	1	8.00	130	0.42
Site Work	Paving Equipment	0	0.00	132	0.36
Site Work	Rollers	1	8.00	80	0.38
Site Work	Rubber Tired Dozers	1	8.00	247	0.40
Site Work	Skid Steer Loaders	2	8.00	65	0.37
Site Work	Sweepers/Scrubbers	1	8.00	64	0.46
Site Work	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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
Hazardous Materials Abatement	5	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Selective Demolition	5	60.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Construction 1	12	80.00	55.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Finishes 1	11	80.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Clearance	15	60.00	0.00	320.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Superstructure	11	80.00	55.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Construction 2	12	80.00	55.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Interior Finishes 2	11	80.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Work	11	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Hazardous Materials Abatement - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3015	50.3015	0.0154	0.0000	50.6857
Total	0.8898	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3015	50.3015	0.0154	0.0000	50.6857

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3.2 Hazardous Materials Abatement - 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	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583
Total	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583

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	0.8631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3014	50.3014	0.0154	0.0000	50.6856
Total	0.8898	0.2906	0.3773	5.8000e-004		0.0125	0.0125		0.0116	0.0116	0.0000	50.3014	50.3014	0.0154	0.0000	50.6856

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3.2 Hazardous Materials Abatement - 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	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583
Total	0.0140	9.6600e-003	0.1036	3.3000e-004	0.0359	2.3000e-004	0.0362	9.5600e-003	2.1000e-004	9.7600e-003	0.0000	29.7413	29.7413	6.8000e-004	0.0000	29.7583

3.3 Selective Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9580	38.9580	0.0126	0.0000	39.2730
Total	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9580	38.9580	0.0126	0.0000	39.2730

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3.3 Selective Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.2900e-003	0.0407	0.0108	1.1000e-004	2.6100e-003	9.0000e-005	2.7000e-003	7.5000e-004	9.0000e-005	8.4000e-004	0.0000	10.2576	10.2576	4.5000e-004	0.0000	10.2687
Worker	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713
Total	5.3600e-003	0.0435	0.0410	2.1000e-004	0.0131	1.6000e-004	0.0132	3.5300e-003	1.5000e-004	3.6800e-003	0.0000	18.9239	18.9239	6.5000e-004	0.0000	18.9400

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	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9579	38.9579	0.0126	0.0000	39.2729
Total	0.0195	0.1902	0.1837	4.4000e-004		7.4900e-003	7.4900e-003		6.8900e-003	6.8900e-003	0.0000	38.9579	38.9579	0.0126	0.0000	39.2729

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3.3 Selective Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.2900e-003	0.0407	0.0108	1.1000e-004	2.6100e-003	9.0000e-005	2.7000e-003	7.5000e-004	9.0000e-005	8.4000e-004	0.0000	10.2576	10.2576	4.5000e-004	0.0000	10.2687
Worker	4.0700e-003	2.8200e-003	0.0302	1.0000e-004	0.0105	7.0000e-005	0.0105	2.7800e-003	6.0000e-005	2.8400e-003	0.0000	8.6664	8.6664	2.0000e-004	0.0000	8.6713
Total	5.3600e-003	0.0435	0.0410	2.1000e-004	0.0131	1.6000e-004	0.0132	3.5300e-003	1.5000e-004	3.6800e-003	0.0000	18.9239	18.9239	6.5000e-004	0.0000	18.9400

3.4 Interior Construction 1 - 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	0.0571	0.5111	0.4498	8.8000e-004		0.0245	0.0245		0.0237	0.0237	0.0000	73.2688	73.2688	0.0115	0.0000	73.5561
Total	0.0571	0.5111	0.4498	8.8000e-004		0.0245	0.0245		0.0237	0.0237	0.0000	73.2688	73.2688	0.0115	0.0000	73.5561

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3.4 Interior Construction 1 - 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	5.9200e-003	0.1865	0.0497	4.9000e-004	0.0119	4.1000e-004	0.0124	3.4500e-003	4.0000e-004	3.8500e-003	0.0000	47.0138	47.0138	2.0500e-003	0.0000	47.0651
Worker	8.1300e-003	5.6300e-003	0.0604	1.9000e-004	0.0209	1.3000e-004	0.0211	5.5700e-003	1.2000e-004	5.6900e-003	0.0000	17.3327	17.3327	3.9000e-004	0.0000	17.3426
Total	0.0141	0.1921	0.1100	6.8000e-004	0.0329	5.4000e-004	0.0334	9.0200e-003	5.2000e-004	9.5400e-003	0.0000	64.3465	64.3465	2.4400e-003	0.0000	64.4076

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	0.0571	0.5111	0.4498	8.8000e-004		0.0245	0.0245		0.0237	0.0237	0.0000	73.2687	73.2687	0.0115	0.0000	73.5560
Total	0.0571	0.5111	0.4498	8.8000e-004		0.0245	0.0245		0.0237	0.0237	0.0000	73.2687	73.2687	0.0115	0.0000	73.5560

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3.4 Interior Construction 1 - 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	5.9200e-003	0.1865	0.0497	4.9000e-004	0.0119	4.1000e-004	0.0124	3.4500e-003	4.0000e-004	3.8500e-003	0.0000	47.0138	47.0138	2.0500e-003	0.0000	47.0651
Worker	8.1300e-003	5.6300e-003	0.0604	1.9000e-004	0.0209	1.3000e-004	0.0211	5.5700e-003	1.2000e-004	5.6900e-003	0.0000	17.3327	17.3327	3.9000e-004	0.0000	17.3426
Total	0.0141	0.1921	0.1100	6.8000e-004	0.0329	5.4000e-004	0.0334	9.0200e-003	5.2000e-004	9.5400e-003	0.0000	64.3465	64.3465	2.4400e-003	0.0000	64.4076

3.4 Interior Construction 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0517	0.4537	0.4323	8.5000e-004		0.0211	0.0211		0.0205	0.0205	0.0000	71.0511	71.0511	0.0110	0.0000	71.3265
Total	0.0517	0.4537	0.4323	8.5000e-004		0.0211	0.0211		0.0205	0.0205	0.0000	71.0511	71.0511	0.0110	0.0000	71.3265

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3.4 Interior Construction 1 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.3600e-003	0.1710	0.0453	4.7000e-004	0.0116	3.5000e-004	0.0119	3.3500e-003	3.3000e-004	3.6800e-003	0.0000	45.1530	45.1530	1.9000e-003	0.0000	45.2005
Worker	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055
Total	0.0127	0.1759	0.0992	6.5000e-004	0.0319	4.7000e-004	0.0324	8.7500e-003	4.5000e-004	9.1900e-003	0.0000	61.3500	61.3500	2.2400e-003	0.0000	61.4060

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	0.0517	0.4537	0.4323	8.5000e-004		0.0211	0.0211		0.0205	0.0205	0.0000	71.0511	71.0511	0.0110	0.0000	71.3265
Total	0.0517	0.4537	0.4323	8.5000e-004		0.0211	0.0211		0.0205	0.0205	0.0000	71.0511	71.0511	0.0110	0.0000	71.3265

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3.4 Interior Construction 1 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.3600e-003	0.1710	0.0453	4.7000e-004	0.0116	3.5000e-004	0.0119	3.3500e-003	3.3000e-004	3.6800e-003	0.0000	45.1530	45.1530	1.9000e-003	0.0000	45.2005
Worker	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055
Total	0.0127	0.1759	0.0992	6.5000e-004	0.0319	4.7000e-004	0.0324	8.7500e-003	4.5000e-004	9.1900e-003	0.0000	61.3500	61.3500	2.2400e-003	0.0000	61.4060

3.5 Interior Finishes 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3563					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0296	0.2394	0.2621	4.7000e-004		0.0123	0.0123		0.0121	0.0121	0.0000	38.5512	38.5512	4.1500e-003	0.0000	38.6549
Total	0.3859	0.2394	0.2621	4.7000e-004		0.0123	0.0123		0.0121	0.0121	0.0000	38.5512	38.5512	4.1500e-003	0.0000	38.6549

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3.5 Interior Finishes 1 - 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	5.5500e-003	3.8400e-003	0.0412	1.3000e-004	0.0143	9.0000e-005	0.0144	3.8000e-003	8.0000e-005	3.8800e-003	0.0000	11.8178	11.8178	2.7000e-004	0.0000	11.8245
Total	5.5500e-003	3.8400e-003	0.0412	1.3000e-004	0.0143	9.0000e-005	0.0144	3.8000e-003	8.0000e-005	3.8800e-003	0.0000	11.8178	11.8178	2.7000e-004	0.0000	11.8245

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	0.3563					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0296	0.2394	0.2621	4.7000e-004		0.0123	0.0123		0.0121	0.0121	0.0000	38.5512	38.5512	4.1500e-003	0.0000	38.6548
Total	0.3859	0.2394	0.2621	4.7000e-004		0.0123	0.0123		0.0121	0.0121	0.0000	38.5512	38.5512	4.1500e-003	0.0000	38.6548

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3.5 Interior Finishes 1 - 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	5.5500e-003	3.8400e-003	0.0412	1.3000e-004	0.0143	9.0000e-005	0.0144	3.8000e-003	8.0000e-005	3.8800e-003	0.0000	11.8178	11.8178	2.7000e-004	0.0000	11.8245
Total	5.5500e-003	3.8400e-003	0.0412	1.3000e-004	0.0143	9.0000e-005	0.0144	3.8000e-003	8.0000e-005	3.8800e-003	0.0000	11.8178	11.8178	2.7000e-004	0.0000	11.8245

3.5 Interior Finishes 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5068					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0398	0.3198	0.3717	6.7000e-004		0.0156	0.0156		0.0153	0.0153	0.0000	54.8283	54.8283	5.7700e-003	0.0000	54.9726
Total	0.5465	0.3198	0.3717	6.7000e-004		0.0156	0.0156		0.0153	0.0153	0.0000	54.8283	54.8283	5.7700e-003	0.0000	54.9726

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3.5 Interior Finishes 1 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055
Total	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055

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	0.5068					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0398	0.3198	0.3717	6.7000e-004		0.0156	0.0156		0.0153	0.0153	0.0000	54.8283	54.8283	5.7700e-003	0.0000	54.9725
Total	0.5465	0.3198	0.3717	6.7000e-004		0.0156	0.0156		0.0153	0.0153	0.0000	54.8283	54.8283	5.7700e-003	0.0000	54.9725

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3.5 Interior Finishes 1 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055
Total	7.3600e-003	4.9000e-003	0.0538	1.8000e-004	0.0203	1.2000e-004	0.0204	5.4000e-003	1.2000e-004	5.5100e-003	0.0000	16.1970	16.1970	3.4000e-004	0.0000	16.2055

3.6 Site Clearance - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2600e-003	0.0000	2.2600e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1628	1.3798	1.5952	3.5400e-003		0.0631	0.0631		0.0602	0.0602	0.0000	303.2224	303.2224	0.0742	0.0000	305.0770
Total	0.1628	1.3798	1.5952	3.5400e-003	2.2600e-003	0.0631	0.0654	2.5000e-004	0.0602	0.0604	0.0000	303.2224	303.2224	0.0742	0.0000	305.0770

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3.6 Site Clearance - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1800e-003	0.0393	9.1700e-003	1.2000e-004	2.7100e-003	1.1000e-004	2.8300e-003	7.5000e-004	1.1000e-004	8.6000e-004	0.0000	11.8861	11.8861	5.3000e-004	0.0000	11.8995
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	0.0112	7.4600e-003	0.0820	2.7000e-004	0.0309	1.9000e-004	0.0311	8.2300e-003	1.8000e-004	8.4000e-003	0.0000	24.6751	24.6751	5.2000e-004	0.0000	24.6881
Total	0.0124	0.0468	0.0912	3.9000e-004	0.0336	3.0000e-004	0.0340	8.9800e-003	2.9000e-004	9.2600e-003	0.0000	36.5612	36.5612	1.0500e-003	0.0000	36.5876

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0200e-003	0.0000	1.0200e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1628	1.3798	1.5952	3.5400e-003		0.0631	0.0631		0.0602	0.0602	0.0000	303.2220	303.2220	0.0742	0.0000	305.0766
Total	0.1628	1.3798	1.5952	3.5400e-003	1.0200e-003	0.0631	0.0642	1.1000e-004	0.0602	0.0603	0.0000	303.2220	303.2220	0.0742	0.0000	305.0766

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3.6 Site Clearance - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1800e-003	0.0393	9.1700e-003	1.2000e-004	2.7100e-003	1.1000e-004	2.8300e-003	7.5000e-004	1.1000e-004	8.6000e-004	0.0000	11.8861	11.8861	5.3000e-004	0.0000	11.8995
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	0.0112	7.4600e-003	0.0820	2.7000e-004	0.0309	1.9000e-004	0.0311	8.2300e-003	1.8000e-004	8.4000e-003	0.0000	24.6751	24.6751	5.2000e-004	0.0000	24.6881
Total	0.0124	0.0468	0.0912	3.9000e-004	0.0336	3.0000e-004	0.0340	8.9800e-003	2.9000e-004	9.2600e-003	0.0000	36.5612	36.5612	1.0500e-003	0.0000	36.5876

3.7 Superstructure - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0997	0.9101	0.9091	1.7500e-003		0.0417	0.0417		0.0403	0.0403	0.0000	147.9542	147.9542	0.0249	0.0000	148.5757
Total	0.0997	0.9101	0.9091	1.7500e-003		0.0417	0.0417		0.0403	0.0403	0.0000	147.9542	147.9542	0.0249	0.0000	148.5757

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3.7 Superstructure - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0109	0.3473	0.0921	9.6000e-004	0.0235	7.1000e-004	0.0242	6.8000e-003	6.8000e-004	7.4800e-003	0.0000	91.7171	91.7171	3.8500e-003	0.0000	91.8134
Worker	0.0150	9.9500e-003	0.1093	3.6000e-004	0.0412	2.5000e-004	0.0415	0.0110	2.3000e-004	0.0112	0.0000	32.9001	32.9001	7.0000e-004	0.0000	32.9175
Total	0.0258	0.3572	0.2014	1.3200e-003	0.0648	9.6000e-004	0.0657	0.0178	9.1000e-004	0.0187	0.0000	124.6172	124.6172	4.5500e-003	0.0000	124.7309

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	0.0997	0.9101	0.9091	1.7500e-003		0.0417	0.0417		0.0403	0.0403	0.0000	147.9541	147.9541	0.0249	0.0000	148.5755
Total	0.0997	0.9101	0.9091	1.7500e-003		0.0417	0.0417		0.0403	0.0403	0.0000	147.9541	147.9541	0.0249	0.0000	148.5755

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3.7 Superstructure - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0109	0.3473	0.0921	9.6000e-004	0.0235	7.1000e-004	0.0242	6.8000e-003	6.8000e-004	7.4800e-003	0.0000	91.7171	91.7171	3.8500e-003	0.0000	91.8134
Worker	0.0150	9.9500e-003	0.1093	3.6000e-004	0.0412	2.5000e-004	0.0415	0.0110	2.3000e-004	0.0112	0.0000	32.9001	32.9001	7.0000e-004	0.0000	32.9175
Total	0.0258	0.3572	0.2014	1.3200e-003	0.0648	9.6000e-004	0.0657	0.0178	9.1000e-004	0.0187	0.0000	124.6172	124.6172	4.5500e-003	0.0000	124.7309

3.7 Superstructure - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0943	0.8483	0.9037	1.7500e-003		0.0372	0.0372		0.0360	0.0360	0.0000	147.9536	147.9536	0.0245	0.0000	148.5654
Total	0.0943	0.8483	0.9037	1.7500e-003		0.0372	0.0372		0.0360	0.0360	0.0000	147.9536	147.9536	0.0245	0.0000	148.5654

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3.7 Superstructure - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.2000e-003	0.2632	0.0827	9.3000e-004	0.0235	3.1000e-004	0.0238	6.8000e-003	2.9000e-004	7.0900e-003	0.0000	89.1095	89.1095	3.2800e-003	0.0000	89.1915
Worker	0.0140	8.9500e-003	0.1006	3.5000e-004	0.0412	2.5000e-004	0.0415	0.0110	2.3000e-004	0.0112	0.0000	31.6504	31.6504	6.2000e-004	0.0000	31.6660
Total	0.0222	0.2721	0.1833	1.2800e-003	0.0648	5.6000e-004	0.0653	0.0178	5.2000e-004	0.0183	0.0000	120.7598	120.7598	3.9000e-003	0.0000	120.8574

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	0.0943	0.8483	0.9037	1.7500e-003		0.0372	0.0372		0.0360	0.0360	0.0000	147.9534	147.9534	0.0245	0.0000	148.5652
Total	0.0943	0.8483	0.9037	1.7500e-003		0.0372	0.0372		0.0360	0.0360	0.0000	147.9534	147.9534	0.0245	0.0000	148.5652

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3.7 Superstructure - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.2000e-003	0.2632	0.0827	9.3000e-004	0.0235	3.1000e-004	0.0238	6.8000e-003	2.9000e-004	7.0900e-003	0.0000	89.1095	89.1095	3.2800e-003	0.0000	89.1915
Worker	0.0140	8.9500e-003	0.1006	3.5000e-004	0.0412	2.5000e-004	0.0415	0.0110	2.3000e-004	0.0112	0.0000	31.6504	31.6504	6.2000e-004	0.0000	31.6660
Total	0.0222	0.2721	0.1833	1.2800e-003	0.0648	5.6000e-004	0.0653	0.0178	5.2000e-004	0.0183	0.0000	120.7598	120.7598	3.9000e-003	0.0000	120.8574

3.8 Interior Construction 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0996	0.8615	0.8728	1.7400e-003		0.0385	0.0385		0.0373	0.0373	0.0000	144.3220	144.3220	0.0220	0.0000	144.8717
Total	0.0996	0.8615	0.8728	1.7400e-003		0.0385	0.0385		0.0373	0.0373	0.0000	144.3220	144.3220	0.0220	0.0000	144.8717

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3.8 Interior Construction 2 - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.2000e-003	0.2632	0.0827	9.3000e-004	0.0235	3.1000e-004	0.0238	6.8000e-003	2.9000e-004	7.0900e-003	0.0000	89.1095	89.1095	3.2800e-003	0.0000	89.1915
Worker	0.0140	8.9500e-003	0.1006	3.5000e-004	0.0412	2.5000e-004	0.0415	0.0110	2.3000e-004	0.0112	0.0000	31.6504	31.6504	6.2000e-004	0.0000	31.6660
Total	0.0222	0.2721	0.1833	1.2800e-003	0.0648	5.6000e-004	0.0653	0.0178	5.2000e-004	0.0183	0.0000	120.7598	120.7598	3.9000e-003	0.0000	120.8574

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	0.0996	0.8615	0.8728	1.7400e-003		0.0385	0.0385		0.0373	0.0373	0.0000	144.3218	144.3218	0.0220	0.0000	144.8715
Total	0.0996	0.8615	0.8728	1.7400e-003		0.0385	0.0385		0.0373	0.0373	0.0000	144.3218	144.3218	0.0220	0.0000	144.8715

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3.8 Interior Construction 2 - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.2000e-003	0.2632	0.0827	9.3000e-004	0.0235	3.1000e-004	0.0238	6.8000e-003	2.9000e-004	7.0900e-003	0.0000	89.1095	89.1095	3.2800e-003	0.0000	89.1915
Worker	0.0140	8.9500e-003	0.1006	3.5000e-004	0.0412	2.5000e-004	0.0415	0.0110	2.3000e-004	0.0112	0.0000	31.6504	31.6504	6.2000e-004	0.0000	31.6660
Total	0.0222	0.2721	0.1833	1.2800e-003	0.0648	5.6000e-004	0.0653	0.0178	5.2000e-004	0.0183	0.0000	120.7598	120.7598	3.9000e-003	0.0000	120.8574

3.8 Interior Construction 2 - 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	0.0643	0.5505	0.5875	1.1700e-003		0.0235	0.0235		0.0228	0.0228	0.0000	97.6944	97.6944	0.0148	0.0000	98.0643
Total	0.0643	0.5505	0.5875	1.1700e-003		0.0235	0.0235		0.0228	0.0228	0.0000	97.6944	97.6944	0.0148	0.0000	98.0643

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3.8 Interior Construction 2 - 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	5.3700e-003	0.1759	0.0541	6.2000e-004	0.0159	2.0000e-004	0.0161	4.6000e-003	2.0000e-004	4.8000e-003	0.0000	59.9169	59.9169	2.1800e-003	0.0000	59.9713
Worker	8.9200e-003	5.4800e-003	0.0631	2.3000e-004	0.0279	1.7000e-004	0.0281	7.4200e-003	1.5000e-004	7.5800e-003	0.0000	20.5833	20.5833	3.8000e-004	0.0000	20.5928
Total	0.0143	0.1814	0.1172	8.5000e-004	0.0438	3.7000e-004	0.0442	0.0120	3.5000e-004	0.0124	0.0000	80.5002	80.5002	2.5600e-003	0.0000	80.5641

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	0.0643	0.5505	0.5875	1.1700e-003		0.0235	0.0235		0.0228	0.0228	0.0000	97.6943	97.6943	0.0148	0.0000	98.0642
Total	0.0643	0.5505	0.5875	1.1700e-003		0.0235	0.0235		0.0228	0.0228	0.0000	97.6943	97.6943	0.0148	0.0000	98.0642

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3.8 Interior Construction 2 - 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	5.3700e-003	0.1759	0.0541	6.2000e-004	0.0159	2.0000e-004	0.0161	4.6000e-003	2.0000e-004	4.8000e-003	0.0000	59.9169	59.9169	2.1800e-003	0.0000	59.9713
Worker	8.9200e-003	5.4800e-003	0.0631	2.3000e-004	0.0279	1.7000e-004	0.0281	7.4200e-003	1.5000e-004	7.5800e-003	0.0000	20.5833	20.5833	3.8000e-004	0.0000	20.5928
Total	0.0143	0.1814	0.1172	8.5000e-004	0.0438	3.7000e-004	0.0442	0.0120	3.5000e-004	0.0124	0.0000	80.5002	80.5002	2.5600e-003	0.0000	80.5641

3.9 Interior Finishes 2 - 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					
Archit. Coating	0.8631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0864	0.6890	0.8856	1.6000e-003		0.0297	0.0297		0.0294	0.0294	0.0000	131.0740	131.0740	0.0132	0.0000	131.4036
Total	0.9495	0.6890	0.8856	1.6000e-003		0.0297	0.0297		0.0294	0.0294	0.0000	131.0740	131.0740	0.0132	0.0000	131.4036

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3.9 Interior Finishes 2 - 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	0.0000	0.0000	0.0000	0.0000	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	0.0155	9.5200e-003	0.1098	4.0000e-004	0.0485	2.9000e-004	0.0488	0.0129	2.6000e-004	0.0132	0.0000	35.7869	35.7869	6.6000e-004	0.0000	35.8034
Total	0.0155	9.5200e-003	0.1098	4.0000e-004	0.0485	2.9000e-004	0.0488	0.0129	2.6000e-004	0.0132	0.0000	35.7869	35.7869	6.6000e-004	0.0000	35.8034

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	0.8631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0864	0.6890	0.8856	1.6000e-003		0.0297	0.0297		0.0294	0.0294	0.0000	131.0738	131.0738	0.0132	0.0000	131.4034
Total	0.9495	0.6890	0.8856	1.6000e-003		0.0297	0.0297		0.0294	0.0294	0.0000	131.0738	131.0738	0.0132	0.0000	131.4034

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3.9 Interior Finishes 2 - 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	0.0000	0.0000	0.0000	0.0000	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	0.0155	9.5200e-003	0.1098	4.0000e-004	0.0485	2.9000e-004	0.0488	0.0129	2.6000e-004	0.0132	0.0000	35.7869	35.7869	6.6000e-004	0.0000	35.8034
Total	0.0155	9.5200e-003	0.1098	4.0000e-004	0.0485	2.9000e-004	0.0488	0.0129	2.6000e-004	0.0132	0.0000	35.7869	35.7869	6.6000e-004	0.0000	35.8034

3.10 Site Work - 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	0.0496	0.4567	0.4998	1.0100e-003		0.0204	0.0204		0.0188	0.0188	0.0000	88.1806	88.1806	0.0283	0.0000	88.8873
Paving	2.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0518	0.4567	0.4998	1.0100e-003		0.0204	0.0204		0.0188	0.0188	0.0000	88.1806	88.1806	0.0283	0.0000	88.8873

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3.10 Site Work - 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	0.0000	0.0000	0.0000	0.0000	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	1.6000e-003	9.8000e-004	0.0113	4.0000e-005	5.0000e-003	3.0000e-005	5.0300e-003	1.3300e-003	3.0000e-005	1.3600e-003	0.0000	3.6839	3.6839	7.0000e-005	0.0000	3.6857
Total	1.6000e-003	9.8000e-004	0.0113	4.0000e-005	5.0000e-003	3.0000e-005	5.0300e-003	1.3300e-003	3.0000e-005	1.3600e-003	0.0000	3.6839	3.6839	7.0000e-005	0.0000	3.6857

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	0.0496	0.4567	0.4998	1.0100e-003		0.0204	0.0204		0.0188	0.0188	0.0000	88.1805	88.1805	0.0283	0.0000	88.8872
Paving	2.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0518	0.4567	0.4998	1.0100e-003		0.0204	0.0204		0.0188	0.0188	0.0000	88.1805	88.1805	0.0283	0.0000	88.8872

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3.10 Site Work - 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	0.0000	0.0000	0.0000	0.0000	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	1.6000e-003	9.8000e-004	0.0113	4.0000e-005	5.0000e-003	3.0000e-005	5.0300e-003	1.3300e-003	3.0000e-005	1.3600e-003	0.0000	3.6839	3.6839	7.0000e-005	0.0000	3.6857
Total	1.6000e-003	9.8000e-004	0.0113	4.0000e-005	5.0000e-003	3.0000e-005	5.0300e-003	1.3300e-003	3.0000e-005	1.3600e-003	0.0000	3.6839	3.6839	7.0000e-005	0.0000	3.6857

3.10 Site Work - 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	0.0477	0.4284	0.5065	1.0300e-003		0.0184	0.0184		0.0170	0.0170	0.0000	90.2707	90.2707	0.0289	0.0000	90.9942
Paving	2.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0500	0.4284	0.5065	1.0300e-003		0.0184	0.0184		0.0170	0.0170	0.0000	90.2707	90.2707	0.0289	0.0000	90.9942

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3.10 Site Work - 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	1.5500e-003	9.1000e-004	0.0107	4.0000e-005	5.1200e-003	3.0000e-005	5.1500e-003	1.3600e-003	3.0000e-005	1.3900e-003	0.0000	3.6191	3.6191	6.0000e-005	0.0000	3.6207
Total	1.5500e-003	9.1000e-004	0.0107	4.0000e-005	5.1200e-003	3.0000e-005	5.1500e-003	1.3600e-003	3.0000e-005	1.3900e-003	0.0000	3.6191	3.6191	6.0000e-005	0.0000	3.6207

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	0.0477	0.4284	0.5065	1.0300e-003		0.0184	0.0184		0.0170	0.0170	0.0000	90.2706	90.2706	0.0289	0.0000	90.9941
Paving	2.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0500	0.4284	0.5065	1.0300e-003		0.0184	0.0184		0.0170	0.0170	0.0000	90.2706	90.2706	0.0289	0.0000	90.9941

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3.10 Site Work - 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	1.5500e-003	9.1000e-004	0.0107	4.0000e-005	5.1200e-003	3.0000e-005	5.1500e-003	1.3600e-003	3.0000e-005	1.3900e-003	0.0000	3.6191	3.6191	6.0000e-005	0.0000	3.6207
Total	1.5500e-003	9.1000e-004	0.0107	4.0000e-005	5.1200e-003	3.0000e-005	5.1500e-003	1.3600e-003	3.0000e-005	1.3900e-003	0.0000	3.6191	3.6191	6.0000e-005	0.0000	3.6207

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

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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	0.2233	0.8724	2.3631	8.8900e-003	0.9202	7.0800e-003	0.9272	0.2463	6.5800e-003	0.2529	0.0000	816.9526	816.9526	0.0257	0.0000	817.5939
Unmitigated	0.2412	0.9682	2.8137	0.0111	1.1683	8.6500e-003	1.1770	0.3127	8.0400e-003	0.3207	0.0000	1,017.3212	1,017.3212	0.0306	0.0000	1,018.0862

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	544.00	544.00	544.00	1,256,426	989,574
General Office Building	1,104.81	0.00	0.00	1,885,870	1,485,330
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,648.81	544.00	544.00	3,142,297	2,474,904

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681
General Office Building	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681
Other Asphalt Surfaces	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681
Parking Lot	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681

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	228.8227	228.8227	0.0322	6.6600e-003	231.6141
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	228.8227	228.8227	0.0322	6.6600e-003	231.6141
NaturalGas Mitigated	0.0147	0.1308	0.0934	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.1919	145.1919	2.7800e-003	2.6600e-003	146.0547
NaturalGas Unmitigated	0.0147	0.1308	0.0934	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.1919	145.1919	2.7800e-003	2.6600e-003	146.0547

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	863945	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1034	46.1034	8.8000e-004	8.5000e-004	46.3774
General Office Building	1.85685e+006	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0885	99.0885	1.9000e-003	1.8200e-003	99.6774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0147	0.1308	0.0934	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.1919	145.1919	2.7800e-003	2.6700e-003	146.0547

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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 Mid Rise	863945	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1034	46.1034	8.8000e-004	8.5000e-004	46.3774
General Office Building	1.85685e+006	0.0100	0.0910	0.0765	5.5000e-004		6.9200e-003	6.9200e-003		6.9200e-003	6.9200e-003	0.0000	99.0885	99.0885	1.9000e-003	1.8200e-003	99.6774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0147	0.1308	0.0934	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.1919	145.1919	2.7800e-003	2.6700e-003	146.0547

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	412835	38.5753	5.4300e-003	1.1200e-003	39.0459
General Office Building	2.02246e+006	188.9784	0.0266	5.5000e-003	191.2838
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	13580	1.2689	1.8000e-004	4.0000e-005	1.2844
Total		228.8227	0.0322	6.6600e-003	231.6141

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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 Mid Rise	412835	38.5753	5.4300e-003	1.1200e-003	39.0459
General Office Building	2.02246e+006	188.9784	0.0266	5.5000e-003	191.2838
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	13580	1.2689	1.8000e-004	4.0000e-005	1.2844
Total		228.8227	0.0322	6.6600e-003	231.6141

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	0.6951	0.0120	0.7463	6.0000e-005		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	5.2136	5.2136	1.2500e-003	7.0000e-005	5.2667
Unmitigated	0.6951	0.0120	0.7463	6.0000e-005		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	5.2136	5.2136	1.2500e-003	7.0000e-005	5.2667

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	0.0863					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.0000e-004	3.4500e-003	1.4700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9949	3.9949	8.0000e-005	7.0000e-005	4.0186
Landscaping	0.0226	8.5700e-003	0.7448	4.0000e-005		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	1.2187	1.2187	1.1800e-003	0.0000	1.2481
Total	0.6951	0.0120	0.7463	6.0000e-005		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	5.2136	5.2136	1.2600e-003	7.0000e-005	5.2667

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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	0.0863					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.0000e-004	3.4500e-003	1.4700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9949	3.9949	8.0000e-005	7.0000e-005	4.0186
Landscaping	0.0226	8.5700e-003	0.7448	4.0000e-005		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	1.2187	1.2187	1.1800e-003	0.0000	1.2481
Total	0.6951	0.0120	0.7463	6.0000e-005		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	5.2136	5.2136	1.2600e-003	7.0000e-005	5.2667

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.3347	0.8719	0.0211	55.4119
Unmitigated	27.3347	0.8719	0.0211	55.4119

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.5154 / 4.10754	6.7046	0.2130	5.1500e-003	13.5626
General Office Building	20.1603 / 12.3563	20.6301	0.6589	0.0159	41.8493
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		27.3347	0.8719	0.0211	55.4119

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.5154 / 4.10754	6.7046	0.2130	5.1500e-003	13.5626
General Office Building	20.1603 / 12.3563	20.6301	0.6589	0.0159	41.8493
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		27.3347	0.8719	0.0211	55.4119

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	30.7511	1.8173	0.0000	76.1846
Unmitigated	30.7511	1.8173	0.0000	76.1846

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	46	9.3376	0.5518	0.0000	23.1335
General Office Building	105.49	21.4135	1.2655	0.0000	53.0511
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		30.7511	1.8173	0.0000	76.1846

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	46	9.3376	0.5518	0.0000	23.1335
General Office Building	105.49	21.4135	1.2655	0.0000	53.0511
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		30.7511	1.8173	0.0000	76.1846

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
