

# **ENERGY TABLES**

**for the proposed**

**AVA PACIFIC BEACH PROJECT  
CITY OF SAN DIEGO**

**PRJ-1059329**

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## 1.0 ENERGY TABLES

State CEQA Guidelines Appendix G contains the Environmental Checklist Form, which includes questions concerning energy. The Project would have a significant effect on the environment if it would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; and/or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

Sections 1.1 and 1.2 present energy use on three sources of energy consumption relevant to the Project, including electricity, natural gas, and transportation fuel for vehicle trips associated with the apartment development's construction and operation. Carbon dioxide (CO<sub>2</sub>) emissions were calculated using the California Emissions Estimator Model (CalEEMod) software version 2022.1.1.17 which incorporates current air emission data, planning methods and protocols approved by CARB (CAPCOA 2022). Energy consumption calculations were derived from the CalEEMod CO<sub>2</sub> emissions output (Appendix A) and GHG emission factors from the USEPA GHG Emissions Factors Hub (USEPA 2023).

### 1.1 Construction Energy Use

Project construction energy demand includes gasoline and diesel fuel demand from worker, vendor, and hauling vehicle trips, and onsite construction equipment usage.

#### 1.1.1 Construction Fuel Demand

Construction fuel demand was calculated based on CalEEMod emissions outputs (Appendix A) and GHG emission factors from the USEPA GHG Emissions Factors Hub (USEPA 2023). Construction worker vehicle fuel use is estimated using the motor gasoline emission factor. Construction vendor, hauling, and onsite equipment fuel use is estimated using the diesel fuel emission factor. Vehicle miles traveled per day (VMT/day) were generated from trip numbers and trip lengths estimated in the CalEEMod output. Construction fuel demand for these line items is provided in Tables 1-4.

<b>TABLE 1 CONSTRUCTION WORKER GASOLINE FUEL DEMAND</b>						
<b>Year</b>	<b>Phase</b>	<b>Days</b>	<b>VMT/day</b>	<b>CO<sub>2</sub> (kg/yr)</b>	<b>kg CO<sub>2</sub>/gal EF</b>	<b>Gallons</b>
2024	Demolition	66	150	3,449	8.78	393
	Site Preparation	65	90	2,038	8.78	232
	Grading	21	120	866	8.78	99
2025	Grading	66	120	2,694	8.78	307
	Building Const.	195	2436	161,917	8.78	18,442
2026	Building Const.	261	2436	212,101	8.78	24,157
2027	Building Const.	175	2436	139,970	8.78	15,942
	Paving	15	180	889	8.78	101
	Arch. Coating	31	486	4,959	8.78	565
<b>2024 Total (gal gasoline/year)</b>						<b>724</b>
<b>2025 Total (gal gasoline/year)</b>						<b>18,748</b>
<b>2026 Total (gal gasoline/year)</b>						<b>24,157</b>
<b>2027 Total (gal gasoline/year)</b>						<b>16,608</b>

<b>TABLE 2 CONSTRUCTION VENDOR DIESEL FUEL DEMAND</b>						
<b>Year</b>	<b>Phase</b>	<b>Days</b>	<b>VMT/day</b>	<b>CO<sub>2</sub> (kg/yr)</b>	<b>kg CO<sub>2</sub>/gal EF</b>	<b>Gallons</b>
2024	Demolition	66	0	0	10.21	0
	Site Preparation	65	0	0	10.21	0
	Grading	21	0	0	10.21	0
2025	Grading	66	0	0	10.21	0
	Building Const.	195	420	121,791	10.21	11,929
2026	Building Const.	261	420	159,835	10.21	15,655
2027	Building Const.	175	420	105,006	10.21	10,285
	Paving	15	0	0	10.21	0
	Arch. Coating	31	0	0	10.21	0
<b>2024 Total (gal diesel/year)</b>						<b>0</b>
<b>2025 Total (gal diesel/year)</b>						<b>11,929</b>
<b>2026 Total (gal diesel/year)</b>						<b>15,655</b>
<b>2027 Total (gal diesel/year)</b>						<b>10,285</b>

<b>TABLE 3 CONSTRUCTION HAUL DIESEL FUEL DEMAND</b>						
<b>Year</b>	<b>Phase</b>	<b>Days</b>	<b>VMT/day</b>	<b>CO<sub>2</sub> (kg/yr)</b>	<b>kg CO<sub>2</sub>/gal EF</b>	<b>Gallons</b>
2024	Demolition	66	288	31,679	10.21	3,103
	Site Preparation	65	0	0	10.21	0
	Grading	21	31.2	1,078	10.21	106
2025	Grading	66	31.2	3,348	10.21	328
	Building Const.	195	0	0	10.21	0
2026	Building Const.	261	0	0	10.21	0
2027	Building Const.	175	0	0	10.21	0
	Paving	15	0	0	10.21	0
	Arch. Coating	31	0	0	10.21	0
<b>2024 Total (gal diesel/year)</b>						<b>3,208</b>
<b>2025 Total (gal diesel/year)</b>						<b>328</b>
<b>2026 Total (gal diesel/year)</b>						<b>0</b>
<b>2027 Total (gal diesel/year)</b>						<b>0</b>

<b>TABLE 4 CONSTRUCTION EQUIPMENT DIESEL FUEL DEMAND</b>						
<b>Year</b>	<b>Phase</b>	<b>Days</b>	<b>Equipment Units</b>	<b>CO<sub>2</sub> (kg/yr)</b>	<b>kg CO<sub>2</sub>/gal EF</b>	<b>Gallons</b>
2024	Demolition	66	5	74,653	10.21	7,312
	Site Preparation	65	3	80,072	10.21	7,842
	Grading	21	4	23,054	10.21	2,258
2025	Grading	66	4	73,166	10.21	7,166
	Building Const.	195	8	194,703	10.21	19,070
2026	Building Const.	261	8	260,280	10.21	25,493
2027	Building Const.	175	8	174,704	10.21	17,111
	Paving	15	6	8,463	10.21	829
	Arch. Coating	31	1	1,877	10.21	184
<b>2024 Total (gal diesel/year)</b>						<b>17,412</b>
<b>2025 Total (gal diesel/year)</b>						<b>26,236</b>
<b>2026 Total (gal diesel/year)</b>						<b>25,493</b>
<b>2027 Total (gal diesel/year)</b>						<b>18,124</b>

Total Project gasoline use for construction worker trips is an estimated 60,237 gallons. Total Project diesel use for construction equipment and construction, vendor, and haul trips is an estimated 128,669 gallons.

**1.2 Operational Energy Use**

Project operation energy demand includes natural gas and electricity use and mobile fuel demand. The analysis of the Project’s electricity and natural gas use is based on the California Emissions Estimator Model (CalEEMod), which quantifies energy use. The CalEEMod output is shown in Appendix A. Modeling related to Project electricity energy and natural gas use was based primarily on the default settings in CalEEMod. The amount of mobile operational fuel use was estimated using CalEEMod outputs for the Project and GHG emission factors from the USEPA GHG Emissions Factors Hub (USEPA 2023).

**1.2.1 Operational Natural Gas and Electricity Use**

Operational natural gas use and electricity use are presented in Table 4 below.

<b>TABLE 5 OPERATIONAL ENERGY USE</b>		
<b>Land Use</b>	<b>Natural Gas (kBTU/yr)</b>	<b>Electricity (kWh/yr)</b>
Apartments Mid Rise	976,824	467,940
Enclosed Parking with Elevator	0	906,616
Parking Lot	0	6,869
<b>Total</b>	<b>976,824</b>	<b>1,381,425</b>

**1.2.2 Mobile Operational Fuel Demand**

Average daily trips (ADTs) of 787 trips per day from the Project Local Mobility Analysis (Kimley-Horn 2023) were used in the CalEEMod modeling. However, because the Project increases residential density to 55 dwelling units per acre, an increased density measure (T-1. Increase Residential Density) was applied to the Project in CalEEMod, which yielded a mitigated ADT of 551 trips per day. With this increased residential density measure, the Project would have an estimated annual vehicle miles traveled (VMT) of 1,476,722 miles. Total mobile source CO<sub>2</sub> is 515 Metric Tons per year. CalEEMod assumes 94.14% of VMT burns gasoline while the remaining 5.86% burns diesel. The Project estimated annual gasoline and diesel demand is shown in Table 6.

<b>TABLE 6 MOBILE OPERATIONAL EMISSIONS</b>				
<b>Fuel Type</b>	<b>Percent of Fleet (%)</b>	<b>kg CO<sub>2</sub> (kg/yr)</b>	<b>kg CO<sub>2</sub>/gal EF</b>	<b>Gallons of Fuel</b>
Gasoline	94.1	484,574	8.78	55,191
Diesel	5.86	30,143	10.21	2,952

## **2.0 REFERENCES**

CAPCOA 2022. *California Emission Estimator Model (CalEEMod) Users Guide*, California Air Pollution Control Officers Association, April 2022. Available at: [https://caleemod.com/documents/user-guide/CalEEMod\\_User\\_Guide\\_v2022.1.pdf](https://caleemod.com/documents/user-guide/CalEEMod_User_Guide_v2022.1.pdf)

Kimley-Horn 2023. *Avalon Bay Local Mobility Analysis*, Kimley-Horn, February 2023.

USEPA 2023. *Emission Factors for Greenhouse Gas Inventories*. US Environmental Protection Agency, September 12, 2023. Available at: [https://www.epa.gov/system/files/documents/2023-03/ghg\\_emission\\_factors\\_hub.pdf](https://www.epa.gov/system/files/documents/2023-03/ghg_emission_factors_hub.pdf)

## **APPENDIX A**

### **CALEEMOD AIR EMISSION MODEL RESULTS ANNUAL AND DAILY EMISSIONS FOR CONSTRUCTION AND OPERATION**



# AVA Pacific Beach\_GHG Custom Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	AVA Pacific Beach_GHG
Construction Start Date	6/3/2024
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	19.0
Location	3883 Ingraham St, San Diego, CA 92109, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6310
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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Apartments Mid Rise	138	Dwelling Unit	0.90	344,437	34,006	—	385	—
Enclosed Parking with Elevator	614	Space	1.49	245,600	0.00	—	—	—
Parking Lot	20.0	Space	0.18	0.00	0.00	—	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Transportation	T-1	Increase Residential Density
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking

\* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	—	5,499	5,499	0.24	0.28	10.8	5,599
Mit.	—	5,499	5,499	0.24	0.28	10.8	5,599
% Reduced	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	—	5,393	5,393	0.25	0.28	0.28	5,484
Mit.	—	5,393	5,393	0.25	0.28	0.28	5,484
% Reduced	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—

Unmit.	—	3,819	3,819	0.17	0.20	3.05	3,886
Mit.	—	3,819	3,819	0.17	0.20	3.05	3,886
% Reduced	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—
Unmit.	—	632	632	0.03	0.03	0.51	643
Mit.	—	632	632	0.03	0.03	0.51	643
% Reduced	—	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2024	—	3,673	3,673	0.16	0.19	2.76	3,737
2025	—	5,499	5,499	0.24	0.28	10.8	5,599
2026	—	5,435	5,435	0.23	0.28	9.88	5,533
2027	—	5,374	5,374	0.22	0.27	8.95	5,469
Daily - Winter (Max)	—	—	—	—	—	—	—
2024	—	2,784	2,784	0.11	0.04	0.02	2,795
2025	—	5,393	5,393	0.25	0.28	0.28	5,484
2026	—	5,331	5,331	0.23	0.28	0.26	5,421
2027	—	5,272	5,272	0.23	0.27	0.23	5,360
Average Daily	—	—	—	—	—	—	—
2024	—	1,310	1,310	0.06	0.04	0.25	1,324
2025	—	3,368	3,368	0.15	0.16	2.54	3,422
2026	—	3,819	3,819	0.17	0.20	3.05	3,886
2027	—	2,633	2,633	0.11	0.13	1.91	2,677
Annual	—	—	—	—	—	—	—

2024	—	217	217	0.01	0.01	0.04	219
2025	—	558	558	0.02	0.03	0.42	567
2026	—	632	632	0.03	0.03	0.51	643
2027	—	436	436	0.02	0.02	0.32	443

### 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2024	—	3,673	3,673	0.16	0.19	2.76	3,737
2025	—	5,499	5,499	0.24	0.28	10.8	5,599
2026	—	5,435	5,435	0.23	0.28	9.88	5,533
2027	—	5,374	5,374	0.22	0.27	8.95	5,469
Daily - Winter (Max)	—	—	—	—	—	—	—
2024	—	2,784	2,784	0.11	0.04	0.02	2,795
2025	—	5,393	5,393	0.25	0.28	0.28	5,484
2026	—	5,331	5,331	0.23	0.28	0.26	5,421
2027	—	5,272	5,272	0.23	0.27	0.23	5,360
Average Daily	—	—	—	—	—	—	—
2024	—	1,310	1,310	0.06	0.04	0.25	1,324
2025	—	3,368	3,368	0.15	0.16	2.54	3,422
2026	—	3,819	3,819	0.17	0.20	3.05	3,886
2027	—	2,633	2,633	0.11	0.13	1.91	2,677
Annual	—	—	—	—	—	—	—
2024	—	217	217	0.01	0.01	0.04	219
2025	—	558	558	0.02	0.03	0.42	567
2026	—	632	632	0.03	0.03	0.51	643

2027	—	436	436	0.02	0.02	0.32	443
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## 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	64.3	7,283	7,347	6.83	0.22	15.1	7,598
Mit.	64.3	5,899	5,963	6.76	0.16	11.3	6,193
% Reduced	—	19%	19%	1%	25%	25%	19%
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	64.3	7,015	7,079	6.84	0.23	2.79	7,321
Mit.	64.3	5,692	5,756	6.77	0.17	2.70	5,979
% Reduced	—	19%	19%	1%	25%	4%	18%
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	64.3	7,077	7,142	6.84	0.23	7.91	7,388
Mit.	64.3	5,745	5,809	6.77	0.17	6.28	6,036
% Reduced	—	19%	19%	1%	25%	21%	18%
Annual (Max)	—	—	—	—	—	—	—
Unmit.	10.6	1,172	1,182	1.13	0.04	1.31	1,223
Mit.	10.6	951	962	1.12	0.03	1.04	999
% Reduced	—	19%	19%	1%	25%	21%	18%

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	—	4,614	4,614	0.22	0.18	12.6	4,686

Area	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Energy	—	2,542	2,542	0.15	0.02	—	2,551
Water	9.29	61.9	71.2	0.96	0.02	—	102
Waste	55.0	0.00	55.0	5.50	0.00	—	192
Refrig.	—	—	—	—	—	2.47	2.47
Total	64.3	7,283	7,347	6.83	0.22	15.1	7,598
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	—	4,411	4,411	0.24	0.19	0.33	4,474
Area	—	—	—	—	—	—	—
Energy	—	2,542	2,542	0.15	0.02	—	2,551
Water	9.29	61.9	71.2	0.96	0.02	—	102
Waste	55.0	0.00	55.0	5.50	0.00	—	192
Refrig.	—	—	—	—	—	2.47	2.47
Total	64.3	7,015	7,079	6.84	0.23	2.79	7,321
Average Daily	—	—	—	—	—	—	—
Mobile	—	4,441	4,441	0.23	0.19	5.45	4,509
Area	—	32.0	32.0	< 0.005	< 0.005	—	32.1
Energy	—	2,542	2,542	0.15	0.02	—	2,551
Water	9.29	61.9	71.2	0.96	0.02	—	102
Waste	55.0	0.00	55.0	5.50	0.00	—	192
Refrig.	—	—	—	—	—	2.47	2.47
Total	64.3	7,077	7,142	6.84	0.23	7.91	7,388
Annual	—	—	—	—	—	—	—
Mobile	—	735	735	0.04	0.03	0.90	746
Area	—	5.30	5.30	< 0.005	< 0.005	—	5.31
Energy	—	421	421	0.03	< 0.005	—	422
Water	1.54	10.2	11.8	0.16	< 0.005	—	16.9

Waste	9.10	0.00	9.10	0.91	0.00	—	31.9
Refrig.	—	—	—	—	—	0.41	0.41
Total	10.6	1,172	1,182	1.13	0.04	1.31	1,223

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	—	3,230	3,230	0.15	0.13	8.83	3,280
Area	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Energy	—	2,542	2,542	0.15	0.02	—	2,551
Water	9.29	61.9	71.2	0.96	0.02	—	102
Waste	55.0	0.00	55.0	5.50	0.00	—	192
Refrig.	—	—	—	—	—	2.47	2.47
Total	64.3	5,899	5,963	6.76	0.16	11.3	6,193
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	—	3,087	3,087	0.17	0.13	0.23	3,132
Area	—	—	—	—	—	—	—
Energy	—	2,542	2,542	0.15	0.02	—	2,551
Water	9.29	61.9	71.2	0.96	0.02	—	102
Waste	55.0	0.00	55.0	5.50	0.00	—	192
Refrig.	—	—	—	—	—	2.47	2.47
Total	64.3	5,692	5,756	6.77	0.17	2.70	5,979
Average Daily	—	—	—	—	—	—	—
Mobile	—	3,109	3,109	0.16	0.13	3.81	3,156
Area	—	32.0	32.0	< 0.005	< 0.005	—	32.1
Energy	—	2,542	2,542	0.15	0.02	—	2,551

Water	9.29	61.9	71.2	0.96	0.02	—	102
Waste	55.0	0.00	55.0	5.50	0.00	—	192
Refrig.	—	—	—	—	—	2.47	2.47
Total	64.3	5,745	5,809	6.77	0.17	6.28	6,036
Annual	—	—	—	—	—	—	—
Mobile	—	515	515	0.03	0.02	0.63	523
Area	—	5.30	5.30	< 0.005	< 0.005	—	5.31
Energy	—	421	421	0.03	< 0.005	—	422
Water	1.54	10.2	11.8	0.16	< 0.005	—	16.9
Waste	9.10	0.00	9.10	0.91	0.00	—	31.9
Refrig.	—	—	—	—	—	0.41	0.41
Total	10.6	951	962	1.12	0.03	1.04	999

### 3. Construction Emissions Details

#### 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	451	451	0.02	< 0.005	—	452
Demolition	—	—	—	—	—	—	—



Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	74.7	74.7	< 0.005	< 0.005	—	74.9
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	121	121	0.01	< 0.005	0.49	123
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	1,058	1,058	0.06	0.17	2.27	1,112
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	—	20.8	20.8	< 0.005	< 0.005	0.04	21.1
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	191	191	0.01	0.03	0.18	201
Annual	—	—	—	—	—	—	—
Worker	—	3.45	3.45	< 0.005	< 0.005	0.01	3.50
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	31.7	31.7	< 0.005	0.01	0.03	33.3

### 3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	—

Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	451	451	0.02	< 0.005	—	452
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	74.7	74.7	< 0.005	< 0.005	—	74.9
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	121	121	0.01	< 0.005	0.49	123
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	1,058	1,058	0.06	0.17	2.27	1,112
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	—	20.8	20.8	< 0.005	< 0.005	0.04	21.1
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	191	191	0.01	0.03	0.18	201
Annual	—	—	—	—	—	—	—
Worker	—	3.45	3.45	< 0.005	< 0.005	0.01	3.50
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	31.7	31.7	< 0.005	0.01	0.03	33.3

### 3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,716	2,716	0.11	0.02	—	2,725
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,716	2,716	0.11	0.02	—	2,725
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	484	484	0.02	< 0.005	—	485
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	80.1	80.1	< 0.005	< 0.005	—	80.3
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	72.6	72.6	< 0.005	< 0.005	0.29	73.7
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	68.5	68.5	< 0.005	< 0.005	0.01	69.4

Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	12.3	12.3	< 0.005	< 0.005	0.02	12.5
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	2.04	2.04	< 0.005	< 0.005	< 0.005	2.07
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,716	2,716	0.11	0.02	—	2,725
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,716	2,716	0.11	0.02	—	2,725
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	484	484	0.02	< 0.005	—	485

Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	80.1	80.1	< 0.005	< 0.005	—	80.3
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	72.6	72.6	< 0.005	< 0.005	0.29	73.7
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	68.5	68.5	< 0.005	< 0.005	0.01	69.4
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	12.3	12.3	< 0.005	< 0.005	0.02	12.5
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	2.04	2.04	< 0.005	< 0.005	< 0.005	2.07
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,454	2,454	0.10	0.02	—	2,462
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	139	139	0.01	< 0.005	—	140
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	23.1	23.1	< 0.005	< 0.005	—	23.1
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	91.3	91.3	< 0.005	< 0.005	0.01	92.5
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	115	115	0.01	0.02	0.01	120
Average Daily	—	—	—	—	—	—	—
Worker	—	5.23	5.23	< 0.005	< 0.005	0.01	5.31
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	6.51	6.51	< 0.005	< 0.005	0.01	6.83

Annual	—	—	—	—	—	—	—
Worker	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.88
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.13

### 3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,454	2,454	0.10	0.02	—	2,462
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	139	139	0.01	< 0.005	—	140
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	23.1	23.1	< 0.005	< 0.005	—	23.1
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—

Worker	—	91.3	91.3	< 0.005	< 0.005	0.01	92.5
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	115	115	0.01	0.02	0.01	120
Average Daily	—	—	—	—	—	—	—
Worker	—	5.23	5.23	< 0.005	< 0.005	0.01	5.31
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	6.51	6.51	< 0.005	< 0.005	0.01	6.83
Annual	—	—	—	—	—	—	—
Worker	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.88
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.13

### 3.7. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	442	442	0.02	< 0.005	—	443



Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	73.2	73.2	< 0.005	< 0.005	—	73.4
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	94.9	94.9	< 0.005	< 0.005	0.36	96.3
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	112	112	0.01	0.02	0.24	118
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	89.6	89.6	< 0.005	< 0.005	0.01	90.8
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	112	112	0.01	0.02	0.01	118
Average Daily	—	—	—	—	—	—	—
Worker	—	16.3	16.3	< 0.005	< 0.005	0.03	16.5
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	20.2	20.2	< 0.005	< 0.005	0.02	21.2
Annual	—	—	—	—	—	—	—
Worker	—	2.69	2.69	< 0.005	< 0.005	< 0.005	2.73
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	3.35	3.35	< 0.005	< 0.005	< 0.005	3.51

### 3.8. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	442	442	0.02	< 0.005	—	443
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	73.2	73.2	< 0.005	< 0.005	—	73.4
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	94.9	94.9	< 0.005	< 0.005	0.36	96.3
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	112	112	0.01	0.02	0.24	118
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	89.6	89.6	< 0.005	< 0.005	0.01	90.8

Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	112	112	0.01	0.02	0.01	118
Average Daily	—	—	—	—	—	—	—
Worker	—	16.3	16.3	< 0.005	< 0.005	0.03	16.5
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	20.2	20.2	< 0.005	< 0.005	0.02	21.2
Annual	—	—	—	—	—	—	—
Worker	—	2.69	2.69	< 0.005	< 0.005	< 0.005	2.73
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	3.35	3.35	< 0.005	< 0.005	< 0.005	3.51

### 3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,209
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,209
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	1,176	1,176	0.05	0.01	—	1,180
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	195	195	0.01	< 0.005	—	195
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	1,921	1,921	0.09	0.07	7.21	1,951
Vendor	—	1,377	1,377	0.06	0.19	3.57	1,440
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	1,814	1,814	0.10	0.07	0.19	1,838
Vendor	—	1,377	1,377	0.06	0.19	0.09	1,437
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	978	978	0.05	0.04	1.66	992
Vendor	—	736	736	0.03	0.10	0.83	768
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	162	162	0.01	0.01	0.28	164
Vendor	—	122	122	0.01	0.02	0.14	127
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,209
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,209

Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	1,176	1,176	0.05	0.01	—	1,180
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	195	195	0.01	< 0.005	—	195
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	1,921	1,921	0.09	0.07	7.21	1,951
Vendor	—	1,377	1,377	0.06	0.19	3.57	1,440
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	1,814	1,814	0.10	0.07	0.19	1,838
Vendor	—	1,377	1,377	0.06	0.19	0.09	1,437
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	978	978	0.05	0.04	1.66	992
Vendor	—	736	736	0.03	0.10	0.83	768
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	162	162	0.01	0.01	0.28	164
Vendor	—	122	122	0.01	0.02	0.14	127
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	1,572	1,572	0.06	0.01	—	1,577
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	260	260	0.01	< 0.005	—	261
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	1,882	1,882	0.09	0.07	6.59	1,911
Vendor	—	1,351	1,351	0.05	0.19	3.29	1,414
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	1,778	1,778	0.09	0.07	0.17	1,801
Vendor	—	1,352	1,352	0.05	0.19	0.09	1,411
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	1,281	1,281	0.07	0.05	2.03	1,300
Vendor	—	965	965	0.04	0.14	1.02	1,009
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—
Worker	—	212	212	0.01	0.01	0.34	215
Vendor	—	160	160	0.01	0.02	0.17	167
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.12. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	1,572	1,572	0.06	0.01	—	1,577
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	260	260	0.01	< 0.005	—	261
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	1,882	1,882	0.09	0.07	6.59	1,911
Vendor	—	1,351	1,351	0.05	0.19	3.29	1,414
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—

Worker	—	1,778	1,778	0.09	0.07	0.17	1,801
Vendor	—	1,352	1,352	0.05	0.19	0.09	1,411
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	1,281	1,281	0.07	0.05	2.03	1,300
Vendor	—	965	965	0.04	0.14	1.02	1,009
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	212	212	0.01	0.01	0.34	215
Vendor	—	160	160	0.01	0.02	0.17	167
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.13. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	1,055	1,055	0.04	0.01	—	1,059
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	175	175	0.01	< 0.005	—	175



Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	1,851	1,851	0.08	0.07	6.00	1,879
Vendor	—	1,322	1,322	0.05	0.19	2.95	1,382
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	1,748	1,748	0.09	0.07	0.16	1,771
Vendor	—	1,323	1,323	0.05	0.19	0.08	1,380
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	845	845	0.04	0.03	1.24	857
Vendor	—	634	634	0.02	0.09	0.61	662
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	140	140	0.01	0.01	0.21	142
Vendor	—	105	105	< 0.005	0.01	0.10	110
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.14. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—

Off-Road Equipment	—	2,201	2,201	0.09	0.02	—	2,208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	1,055	1,055	0.04	0.01	—	1,059
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	175	175	0.01	< 0.005	—	175
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	1,851	1,851	0.08	0.07	6.00	1,879
Vendor	—	1,322	1,322	0.05	0.19	2.95	1,382
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	1,748	1,748	0.09	0.07	0.16	1,771
Vendor	—	1,323	1,323	0.05	0.19	0.08	1,380
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	845	845	0.04	0.03	1.24	857
Vendor	—	634	634	0.02	0.09	0.61	662
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	140	140	0.01	0.01	0.21	142
Vendor	—	105	105	< 0.005	0.01	0.10	110
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.15. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	1,244	1,244	0.05	0.01	—	1,248
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	51.1	51.1	< 0.005	< 0.005	—	51.3
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	8.46	8.46	< 0.005	< 0.005	—	8.49
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	137	137	0.01	< 0.005	0.44	139
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	—	5.37	5.37	< 0.005	< 0.005	0.01	5.44
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	0.89	0.89	< 0.005	< 0.005	< 0.005	0.90

Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.16. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	1,244	1,244	0.05	0.01	—	1,248
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	51.1	51.1	< 0.005	< 0.005	—	51.3
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	8.46	8.46	< 0.005	< 0.005	—	8.49
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	137	137	0.01	< 0.005	0.44	139
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—

Worker	—	5.37	5.37	< 0.005	< 0.005	0.01	5.44
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	0.89	0.89	< 0.005	< 0.005	< 0.005	0.90
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.17. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	11.3	11.3	< 0.005	< 0.005	—	11.4
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	1.88	1.88	< 0.005	< 0.005	—	1.88
Architectural Coatings	—	—	—	—	—	—	—

Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	370	370	0.02	0.01	1.20	376
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	350	350	0.02	0.01	0.03	354
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	30.0	30.0	< 0.005	< 0.005	0.04	30.4
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	4.96	4.96	< 0.005	< 0.005	0.01	5.03
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.18. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	11.3	11.3	< 0.005	< 0.005	—	11.4
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	1.88	1.88	< 0.005	< 0.005	—	1.88
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	370	370	0.02	0.01	1.20	376
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	350	350	0.02	0.01	0.03	354
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	30.0	30.0	< 0.005	< 0.005	0.04	30.4
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	4.96	4.96	< 0.005	< 0.005	0.01	5.03

Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	4,614	4,614	0.22	0.18	12.6	4,686
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	4,614	4,614	0.22	0.18	12.6	4,686
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	4,411	4,411	0.24	0.19	0.33	4,474
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	4,411	4,411	0.24	0.19	0.33	4,474
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	—	735	735	0.04	0.03	0.90	746
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	735	735	0.04	0.03	0.90	746



### 4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	3,230	3,230	0.15	0.13	8.83	3,280
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	3,230	3,230	0.15	0.13	8.83	3,280
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	3,087	3,087	0.17	0.13	0.23	3,132
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	3,087	3,087	0.17	0.13	0.23	3,132
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	—	515	515	0.03	0.02	0.63	523
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	515	515	0.03	0.02	0.63	523

### 4.2. Energy

#### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—

Apartments Mid Rise	—	755	755	0.04	0.01	—	758
Enclosed Parking with Elevator	—	1,463	1,463	0.08	0.01	—	1,468
Parking Lot	—	11.1	11.1	< 0.005	< 0.005	—	11.1
Total	—	2,229	2,229	0.12	0.02	—	2,237
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	755	755	0.04	0.01	—	758
Enclosed Parking with Elevator	—	1,463	1,463	0.08	0.01	—	1,468
Parking Lot	—	11.1	11.1	< 0.005	< 0.005	—	11.1
Total	—	2,229	2,229	0.12	0.02	—	2,237
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	—	125	125	0.01	< 0.005	—	125
Enclosed Parking with Elevator	—	242	242	0.01	< 0.005	—	243
Parking Lot	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Total	—	369	369	0.02	< 0.005	—	370

#### 4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	755	755	0.04	0.01	—	758
Enclosed Parking with Elevator	—	1,463	1,463	0.08	0.01	—	1,468
Parking Lot	—	11.1	11.1	< 0.005	< 0.005	—	11.1
Total	—	2,229	2,229	0.12	0.02	—	2,237
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	755	755	0.04	0.01	—	758

Enclosed Parking with Elevator	—	1,463	1,463	0.08	0.01	—	1,468
Parking Lot	—	11.1	11.1	< 0.005	< 0.005	—	11.1
Total	—	2,229	2,229	0.12	0.02	—	2,237
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	—	125	125	0.01	< 0.005	—	125
Enclosed Parking with Elevator	—	242	242	0.01	< 0.005	—	243
Parking Lot	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Total	—	369	369	0.02	< 0.005	—	370

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	313	313	0.03	< 0.005	—	314
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	313	313	0.03	< 0.005	—	314
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	313	313	0.03	< 0.005	—	314
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	313	313	0.03	< 0.005	—	314
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	—	51.8	51.8	< 0.005	< 0.005	—	52.0

Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	51.8	51.8	< 0.005	< 0.005	—	52.0

#### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	313	313	0.03	< 0.005	—	314
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	313	313	0.03	< 0.005	—	314
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	313	313	0.03	< 0.005	—	314
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	313	313	0.03	< 0.005	—	314
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	—	51.8	51.8	< 0.005	< 0.005	—	52.0
Enclosed Parking with Elevator	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	51.8	51.8	< 0.005	< 0.005	—	52.0

#### 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Total	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Daily, Winter (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	5.30	5.30	< 0.005	< 0.005	—	5.31
Total	—	5.30	5.30	< 0.005	< 0.005	—	5.31

### 4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Total	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Daily, Winter (Max)	—	—	—	—	—	—	—

Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	5.30	5.30	< 0.005	< 0.005	—	5.31
Total	—	5.30	5.30	< 0.005	< 0.005	—	5.31

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	9.29	61.9	71.2	0.96	0.02	—	102
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	9.29	61.9	71.2	0.96	0.02	—	102
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	9.29	61.9	71.2	0.96	0.02	—	102
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	9.29	61.9	71.2	0.96	0.02	—	102
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	1.54	10.2	11.8	0.16	< 0.005	—	16.9

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.54	10.2	11.8	0.16	< 0.005	—	16.9

#### 4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	9.29	61.9	71.2	0.96	0.02	—	102
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	9.29	61.9	71.2	0.96	0.02	—	102
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	9.29	61.9	71.2	0.96	0.02	—	102
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	9.29	61.9	71.2	0.96	0.02	—	102
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	1.54	10.2	11.8	0.16	< 0.005	—	16.9
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.54	10.2	11.8	0.16	< 0.005	—	16.9

#### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	55.0	0.00	55.0	5.50	0.00	—	192
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	55.0	0.00	55.0	5.50	0.00	—	192
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	55.0	0.00	55.0	5.50	0.00	—	192
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	55.0	0.00	55.0	5.50	0.00	—	192
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	9.10	0.00	9.10	0.91	0.00	—	31.9
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	9.10	0.00	9.10	0.91	0.00	—	31.9

#### 4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	55.0	0.00	55.0	5.50	0.00	—	192



Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	55.0	0.00	55.0	5.50	0.00	—	192
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	55.0	0.00	55.0	5.50	0.00	—	192
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	55.0	0.00	55.0	5.50	0.00	—	192
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	9.10	0.00	9.10	0.91	0.00	—	31.9
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	9.10	0.00	9.10	0.91	0.00	—	31.9

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	2.47	2.47
Total	—	—	—	—	—	2.47	2.47
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	2.47	2.47
Total	—	—	—	—	—	2.47	2.47
Annual	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	0.41	0.41
Total	—	—	—	—	—	0.41	0.41

#### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	2.47	2.47
Total	—	—	—	—	—	2.47	2.47
Daily, Winter (Max)	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	2.47	2.47
Total	—	—	—	—	—	2.47	2.47
Annual	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	0.41	0.41
Total	—	—	—	—	—	0.41	0.41

#### 4.7. Offroad Emissions By Equipment Type

##### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

#### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

##### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/3/2024	9/2/2024	5.00	66.0	—
Site Preparation	Site Preparation	9/3/2024	12/2/2024	5.00	65.0	—
Grading	Grading	12/3/2024	4/2/2025	5.00	87.0	—
Building Construction	Building Construction	4/3/2025	9/2/2027	5.00	631	—
Paving	Paving	9/3/2027	9/23/2027	5.00	15.0	—
Architectural Coating	Architectural Coating	9/24/2027	11/5/2027	5.00	31.0	—



## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	7.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	7.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
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### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Site Preparation	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	7.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	3.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
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### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	12.0	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63	HHDT,MHDT
Demolition	Hauling	14.4	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	1.56	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	203	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	55.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	40.5	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

### 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	12.0	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63	HHDT,MHDT
Demolition	Hauling	14.4	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	1.56	20.0	HHDT
Grading	Onsite truck	—	—	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	203	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	55.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	40.5	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Sweep paved roads once per month	9%	9%

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	697,485	232,495	2,921	325	4,365

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	3,805	—
Site Preparation	—	—	97.5	0.00	—
Grading	1,087	—	87.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.67

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Enclosed Parking with Elevator	1.49	100%
Parking Lot	0.18	100%

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	589	0.03	< 0.005
2025	0.00	589	0.03	< 0.005

2026	0.00	589	0.03	< 0.005
2027	0.00	589	0.03	< 0.005

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMТ/Weekday	VMТ/Saturday	VMТ/Sunday	VMТ/Year
Apartments Mid Rise	787	787	787	287,109	5,780	5,780	5,780	2,109,602
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMТ/Weekday	VMТ/Saturday	VMТ/Sunday	VMТ/Year
Apartments Mid Rise	551	551	551	200,976	4,046	4,046	4,046	1,476,722
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

#### 5.10.1.2. Mitigated

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
697484.9249999999	232,495	2,921	325	4,365

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

### 5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	467,940	589	0.0330	0.0040	976,824
Enclosed Parking with Elevator	906,616	589	0.0330	0.0040	0.00
Parking Lot	6,869	589	0.0330	0.0040	0.00

### 5.11.2. Mitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	467,940	589	0.0330	0.0040	976,824



Enclosed Parking with Elevator	906,616	589	0.0330	0.0040	0.00
Parking Lot	6,869	589	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	4,848,364	1,009,568
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00

### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	4,848,364	1,009,568
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	102	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	102	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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## 5.17. User Defined

Equipment Type	Fuel Type
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## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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#### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 8. User Changes to Default Data

Screen	Justification
Land Use	Parking acreage estimated from site plans; remaining lot acreage assigned to residential. Landscape area from site plans.
Construction: Construction Phases	Construction schedule provided by client; assumed all development occurring in one phase. Site preparation not listed separately; split demo and remediation into 3 months each.
Construction: Off-Road Equipment	No equipment specified by client; CalEEMod default equipment mix. Client states all equipment will be Tier 4 w/ DEF.
Operations: Vehicle Data	787 trips per day from LMA (Kimley Horn, 02/2023)
Operations: Hearths	No fireplaces per client.
Operations: Water and Waste Water	Outdoor water use from ETWU in plan set, dated 2/24/23