Appendix C
Air Quality

Total Buildout

Land Use Type	CalEEMod Input	Dwelling units[1]	Square feet[2]	Acres
Residential	Medium-Rise Multi-family	35,611	34,185,600	593.2

[1]Dwelling Unit value provided by City

[2]From CalEEMod Defaults based on land use state DU

20% of Buildout (1/5)

Land Use Type	CalEEMod Input	Dwelling units[1]	Square feet[2]	Acres
Residential	Medium-Rise Multi-family	7,122	6,837,120	187.42

[1]Dwelling Unit value provided by City

[2]From CalEEMod Defaults based on land use state DU

CalEEMod Defaults based on 20% buildout

PhaseNumber	PhaseName	PhaseType	PhaseStartDate	PhaseEndDate	Days
1	Demolition	Demolition	1/1/2024	10/7/2024	200
2	Site Preparation	Site Preparation	10/8/2024	3/25/2025	120
3	Grading	Grading	3/26/2025	6/3/2026	310
4	Building Construction	Building Construction	6/4/2026	4/22/2038	3100
5	Paving	Paving	4/23/2038	2/25/2039	220
6	Architectural Coating	Architectural Coating	2/26/2039	12/31/2039	220

16 years

Modifed Values based on one Year

Phase Number	PhaseName	PhaseType	PhaseStartDate	PhaseEndDate	Days
1	Demolition	Demolition	1/1/2024	1/17/2024	12.5
2	Site Preparation	Site Preparation	1/18/2024	1/29/2024	7.5
3	Grading	Grading	1/30/2024	2/23/2024	19.375
4	Building Construction	Building Construction	2/24/2024	11/21/2024	193.75
5	Paving	Paving	11/22/2024	12/11/2024	13.75
6	Architectural Coating	Architectural Coating	12/12/2024	12/31/2024	13.75

1 year

CalEEMod Defaults based on 20% buildout

PhaseName	WorkerTripNumber	VendorTripNumber	HaulingTripNumber
Demolition	16	2	1,228
Site Preparation	18	2	0
Grading	20	2	66
Building Construction	5,128	762	0
Paving	16	6	0
Architectural Coating	1,025	0	0

Modifed Values based on one Year for 20% buildout

PhaseName	WorkerTripNumber	VendorTripNumber	HaulingTripNumber
Demolition	256	32	1,228
Site Preparation	288	32	0
Grading	320	32	66
Building Construction	82,048	12,192	0
Paving	256	96	0
Architectural Coating	16,400	0	0

Grading assumptions: assuming 10k cubic yards of export per year consistent with the SBAP
Demo assumptions: 6,938,186 total demo sqft, which equates to 1,387,637.2 sqft per year

9951	497.55
775,519.10	38775.955
10,200	510

CalEEMod Defaults based on 20% buildout

Phase Name	OffRoadEquipmentType	OffRoadEquipmentUnitAmount	UsageHours	HorsePower	LoadFactor
Demolition	Concrete/Industrial Saws	1	8	33	0.73
Demolition	Excavators	3	8	36	0.38
Demolition	Rubber Tired Dozers	2	8	367	0.4
Site Preparation	Rubber Tired Dozers	3	8	367	0.4
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37
Grading	Excavators	2	8	36	0.38
Grading	Graders	1	8	148	0.41
Grading	Rubber Tired Dozers	1	8	367	0.4
Grading	Scrapers	2	8	423	0.48
Grading	Tractors/Loaders/Backhoes	2	8	84	0.37
Building Construction	Cranes	1	7	367	0.29
Building Construction	Forklifts	3	8	82	0.2
Building Construction	Generator Sets	1	8	14	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	84	0.37
Building Construction	Welders	1	8	46	0.45
Paving	Pavers	2	8	81	0.42
Paving	Paving Equipment	2	8	89	0.36
Paving	Rollers	2	8	36	0.38
Architectural Coating	Air Compressors	1	6	37	0.48

Modified Values Based on one year for 5% buildout

Phase Name	OffRoadEquipmentType	OffRoadEquipmentUnitAmount	UsageHours	HorsePower	LoadFactor
Demolition	Concrete/Industrial Saws	16	8	33	0.73
Demolition	Excavators	48	8	36	0.38
Demolition	Rubber Tired Dozers	32	8	367	0.4
Site Preparation	Rubber Tired Dozers	48	8	367	0.4
Site Preparation	Tractors/Loaders/Backhoes	64	8	84	0.37
Grading	Excavators	32	8	36	0.38
Grading	Graders	16	8	148	0.41
Grading	Rubber Tired Dozers	16	8	367	0.4
Grading	Scrapers	32	8	423	0.48
Grading	Tractors/Loaders/Backhoes	32	8	84	0.37
Building Construction	Cranes	16	7	367	0.29
Building Construction	Forklifts	48	8	82	0.2
Building Construction	Generator Sets	16	8	14	0.74
Building Construction	Tractors/Loaders/Backhoes	48	7	84	0.37
Building Construction	Welders	16	8	46	0.45
Paving	Pavers	32	8	81	0.42
Paving	Paving Equipment	32	8	89	0.36
Paving	Rollers	32	8	36	0.38
Architectural Coating	Air Compressors	16	6	37	0.48

Fullerton Specific Plan Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

3.3. Site Preparation (2024) - Unmitigated

3.5. Grading (2024) - Unmitigated

3.7. Building Construction (2024) - Unmitigated

3.9. Paving (2024) - Unmitigated

3.11. Architectural Coating (2024) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fullerton Specific Plan
Construction Start Date	1/1/2024
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	18.8
Location	33.870965291717354, -117.92993813622849
County	Orange
City	Fullerton
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5760
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
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

Apartments Mid Rise	7,122	Dwelling Unit	187	6,837,120	0.00	—	21,224	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	377	314	755	5,157	2.77	5.98	1,177	1,183	3.20	280	283	—	1,509,350	1,509,350	36.7	92.9	5,627	1,543,572
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	377	3,061	1,817	4,481	9.13	18.4	1,177	1,183	18.3	280	283	—	1,455,533	1,455,533	112	222	146	1,484,858
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	206	285	504	2,531	1.83	4.01	637	641	2.52	152	155	—	836,594	836,594	24.8	58.9	1,339	856,103
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	37.5	52.0	92.1	462	0.33	0.73	116	117	0.46	27.8	28.2	—	138,508	138,508	4.10	9.75	222	141,738

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	377	314	755	5,157	2.77	5.98	1,177	1,183	3.20	280	283	—	1,509,350	1,509,350	36.7	92.9	5,627	1,543,572
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	377	3,061	1,817	4,481	9.13	18.4	1,177	1,183	18.3	280	283	—	1,455,533	1,455,533	112	222	146	1,484,858
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	206	285	504	2,531	1.83	4.01	637	641	2.52	152	155	—	836,594	836,594	24.8	58.9	1,339	856,103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	37.5	52.0	92.1	462	0.33	0.73	116	117	0.46	27.8	28.2	—	138,508	138,508	4.10	9.75	222	141,738

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	170	308	204	1,356	3.28	11.7	246	257	11.6	62.3	73.9	3,351	452,597	455,948	354	11.3	680	468,843
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	132	273	206	889	3.16	11.6	246	257	11.5	62.3	73.8	3,351	441,948	445,299	355	11.7	65.3	457,712
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	140	285	106	1,102	2.45	3.61	231	234	3.49	58.5	62.0	3,351	307,527	310,877	352	11.0	308	323,254

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.5	52.0	19.4	201	0.45	0.66	42.1	42.7	0.64	10.7	11.3	555	50,915	51,469	58.2	1.82	51.0	53,518

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	118	108	73.5	897	2.45	1.34	246	247	1.25	62.3	63.6	—	250,498	250,498	10.6	9.42	631	254,200
Area	49.5	199	110	450	0.70	8.78	—	8.78	8.74	—	8.74	0.00	136,044	136,044	2.59	0.26	—	136,187
Energy	2.34	1.17	20.0	8.50	0.13	1.61	—	1.61	1.61	—	1.61	—	63,404	63,404	4.60	0.33	—	63,618
Water	—	—	—	—	—	—	—	—	—	—	—	512	2,652	3,164	52.7	1.27	—	4,858
Waste	—	—	—	—	—	—	—	—	—	—	—	2,838	0.00	2,838	284	0.00	—	9,931
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0	49.0
Total	170	308	204	1,356	3.28	11.7	246	257	11.6	62.3	73.9	3,351	452,597	455,948	354	11.3	680	468,843
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	118	107	79.8	835	2.36	1.34	246	247	1.25	62.3	63.6	—	240,929	240,929	11.0	9.84	16.4	244,153
Area	12.4	164	106	45.2	0.68	8.60	—	8.60	8.60	—	8.60	0.00	134,964	134,964	2.54	0.25	—	135,103
Energy	2.34	1.17	20.0	8.50	0.13	1.61	—	1.61	1.61	—	1.61	—	63,404	63,404	4.60	0.33	—	63,618
Water	—	—	—	—	—	—	—	—	—	—	—	512	2,652	3,164	52.7	1.27	—	4,858
Waste	—	—	—	—	—	—	—	—	—	—	—	2,838	0.00	2,838	284	0.00	—	9,931
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0	49.0
Total	132	273	206	889	3.16	11.6	246	257	11.5	62.3	73.8	3,351	441,948	445,299	355	11.7	65.3	457,712
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	111	101	76.6	813	2.27	1.27	231	232	1.19	58.5	59.7	—	231,488	231,488	10.4	9.38	259	234,802
Area	26.2	182	9.88	281	0.06	0.72	—	0.72	0.69	—	0.69	0.00	9,984	9,984	0.20	0.02	—	9,996
Energy	2.34	1.17	20.0	8.50	0.13	1.61	—	1.61	1.61	—	1.61	—	63,404	63,404	4.60	0.33	—	63,618
Water	—	—	—	—	—	—	—	—	—	—	—	512	2,652	3,164	52.7	1.27	—	4,858
Waste	—	—	—	—	—	—	—	—	—	—	—	2,838	0.00	2,838	284	0.00	—	9,931
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0	49.0
Total	140	285	106	1,102	2.45	3.61	231	234	3.49	58.5	62.0	3,351	307,527	310,877	352	11.0	308	323,254
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	20.3	18.4	14.0	148	0.41	0.23	42.1	42.3	0.22	10.7	10.9	—	38,325	38,325	1.72	1.55	42.9	38,874
Area	4.78	33.3	1.80	51.2	0.01	0.13	—	0.13	0.13	—	0.13	0.00	1,653	1,653	0.03	< 0.005	—	1,655
Energy	0.43	0.21	3.64	1.55	0.02	0.29	—	0.29	0.29	—	0.29	—	10,497	10,497	0.76	0.06	—	10,533
Water	—	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	—	804
Waste	—	—	—	—	—	—	—	—	—	—	—	470	0.00	470	47.0	0.00	—	1,644
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.11	8.11
Total	25.5	52.0	19.4	201	0.45	0.66	42.1	42.7	0.64	10.7	11.3	555	50,915	51,469	58.2	1.82	51.0	53,518

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.12	2.62	24.9	21.7	0.03	1.06	—	1.06	0.98	—	0.98	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	104	104	—	15.7	15.7	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.89	0.77	< 0.005	0.04	—	0.04	0.03	—	0.03	—	122	122	< 0.005	< 0.005	—	122
Demolition	—	—	—	—	—	—	3.70	3.70	—	0.56	0.56	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.2	20.2	< 0.005	< 0.005	—	20.3
Demolition	—	—	—	—	—	—	0.67	0.67	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.07	0.94	1.13	13.3	0.00	0.00	3.35	3.35	0.00	0.78	0.78	—	3,301	3,301	0.05	0.13	0.37	3,341
Vendor	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	0.00
Hauling	140	27.7	1,791	761	9.10	17.3	356	373	17.3	99.7	117	—	1,394,560	1,394,560	111	222	75.6	1,463,638

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.50	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	< 0.005	0.22	121
Vendor	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	0.00
Hauling	5.01	1.02	64.5	27.0	0.32	0.62	12.5	13.2	0.62	3.52	4.14	—	49,660	49,660	3.96	7.90	44.6	52,158
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.7	19.7	< 0.005	< 0.005	0.04	20.0
Vendor	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	0.00
Hauling	0.92	0.19	11.8	4.92	0.06	0.11	2.29	2.40	0.11	0.64	0.76	—	8,222	8,222	0.66	1.31	7.38	8,635

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.79	0.72	< 0.005	0.04	—	0.04	0.03	—	0.03	—	116	116	< 0.005	< 0.005	—	116

Dust From Material Movement	—	—	—	—	—	—	0.43	0.43	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.14	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.2	19.2	< 0.005	< 0.005	—	19.3
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.20	1.06	1.27	14.9	0.00	0.00	3.76	3.76	0.00	0.88	0.88	—	3,714	3,714	0.06	0.14	0.41	3,758
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.34	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	82.5	82.5	< 0.005	< 0.005	0.15	83.6
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.03	13.8
Vendor	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	0.00

Hauling	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	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.22	9.22	—	3.66	3.66	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.78	1.57	< 0.005	0.08	—	0.08	0.07	—	0.07	—	343	343	0.01	< 0.005	—	345
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.33	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56.9	56.9	< 0.005	< 0.005	—	57.1

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.34	1.18	1.41	16.6	0.00	0.00	4.18	4.18	0.00	0.98	0.98	—	4,126	4,126	0.06	0.16	0.46	4,176
Vendor	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	0.00
Hauling	7.52	1.49	96.2	40.9	0.49	0.93	19.1	20.0	0.93	5.36	6.29	—	74,952	74,952	5.98	11.9	4.06	78,665
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.91	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	218	218	< 0.005	0.01	0.40	221
Vendor	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	0.00
Hauling	0.39	0.08	5.06	2.12	0.03	0.05	0.99	1.03	0.05	0.28	0.33	—	3,901	3,901	0.31	0.62	3.50	4,097
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.1	36.1	< 0.005	< 0.005	0.07	36.5
Vendor	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	0.00
Hauling	0.07	0.01	0.92	0.39	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	646	646	0.05	0.10	0.58	678

3.7. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.64	5.96	6.97	0.01	0.26	—	0.26	0.24	—	0.24	—	1,274	1,274	0.05	0.01	—	1,279
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.09	1.27	< 0.005	0.05	—	0.05	0.04	—	0.04	—	211	211	0.01	< 0.005	—	212
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	343	302	322	4,934	0.00	0.00	1,072	1,072	0.00	251	251	—	1,111,980	1,111,980	14.5	38.9	4,560	1,128,491
Vendor	33.2	11.1	422	210	2.74	5.48	104	110	2.74	28.8	31.6	—	394,972	394,972	22.1	54.0	1,066	412,675
Hauling	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	343	302	361	4,254	0.00	0.00	1,072	1,072	0.00	251	251	—	1,057,997	1,057,997	16.3	40.7	118	1,070,650
Vendor	32.4	10.3	437	215	2.74	5.48	104	110	2.74	28.8	31.6	—	395,139	395,139	22.1	54.0	27.6	411,802
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	181	160	191	2,374	0.00	0.00	563	563	0.00	132	132	—	570,084	570,084	8.65	21.6	1,045	577,792
Vendor	17.4	5.63	234	113	1.46	2.91	54.9	57.8	1.46	15.2	16.6	—	209,968	209,968	11.7	28.7	244	219,054
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	33.1	29.1	34.8	433	0.00	0.00	103	103	0.00	24.1	24.1	—	94,384	94,384	1.43	3.58	173	95,660
Vendor	3.17	1.03	42.7	20.6	0.27	0.53	10.0	10.5	0.27	2.77	3.04	—	34,763	34,763	1.94	4.75	40.4	36,267
Hauling	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	0.00

3.9. Paving (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.30	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.0	58.0	< 0.005	< 0.005	—	58.2
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.60	9.60	< 0.005	< 0.005	—	9.63
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.07	0.94	1.13	13.3	0.00	0.00	3.35	3.35	0.00	0.78	0.78	—	3,301	3,301	0.05	0.13	0.37	3,341
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.53	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	128	128	< 0.005	< 0.005	0.24	130
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.3	21.3	< 0.005	< 0.005	0.04	21.5

Vendor	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	0.00
Hauling	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	0.00

3.11. Architectural Coating (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	3,057	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.12	5.12	< 0.005	< 0.005	—	5.14
Architectural Coatings	—	117	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.85	0.85	< 0.005	< 0.005	—	0.85

Architect Coatings	—	21.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.28	3.78	4.51	53.2	0.00	0.00	13.4	13.4	0.00	3.14	3.14	—	13,225	13,225	0.20	0.51	1.48	13,383
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.17	2.14	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	514	514	0.01	0.02	0.94	521
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.39	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	85.1	85.1	< 0.005	< 0.005	0.16	86.3
Vendor	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	0.00
Hauling	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	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	118	108	73.5	897	2.45	1.34	246	247	1.25	62.3	63.6	—	250,498	250,498	10.6	9.42	631	254,200
Total	118	108	73.5	897	2.45	1.34	246	247	1.25	62.3	63.6	—	250,498	250,498	10.6	9.42	631	254,200
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	118	107	79.8	835	2.36	1.34	246	247	1.25	62.3	63.6	—	240,929	240,929	11.0	9.84	16.4	244,153
Total	118	107	79.8	835	2.36	1.34	246	247	1.25	62.3	63.6	—	240,929	240,929	11.0	9.84	16.4	244,153
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	20.3	18.4	14.0	148	0.41	0.23	42.1	42.3	0.22	10.7	10.9	—	38,325	38,325	1.72	1.55	42.9	38,874
Total	20.3	18.4	14.0	148	0.41	0.23	42.1	42.3	0.22	10.7	10.9	—	38,325	38,325	1.72	1.55	42.9	38,874

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	38,052	38,052	2.36	0.29	—	38,196
Total	—	—	—	—	—	—	—	—	—	—	—	—	38,052	38,052	2.36	0.29	—	38,196
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	38,052	38,052	2.36	0.29	—	38,196
Total	—	—	—	—	—	—	—	—	—	—	—	—	38,052	38,052	2.36	0.29	—	38,196
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	6,300	6,300	0.39	0.05	—	6,324
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,300	6,300	0.39	0.05	—	6,324

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.34	1.17	20.0	8.50	0.13	1.61	—	1.61	1.61	—	1.61	—	25,351	25,351	2.24	0.05	—	25,422
Total	2.34	1.17	20.0	8.50	0.13	1.61	—	1.61	1.61	—	1.61	—	25,351	25,351	2.24	0.05	—	25,422
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.34	1.17	20.0	8.50	0.13	1.61	—	1.61	1.61	—	1.61	—	25,351	25,351	2.24	0.05	—	25,422

Total	2.34	1.17	20.0	8.50	0.13	1.61	—	1.61	1.61	—	1.61	—	25,351	25,351	2.24	0.05	—	25,422
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.43	0.21	3.64	1.55	0.02	0.29	—	0.29	0.29	—	0.29	—	4,197	4,197	0.37	0.01	—	4,209
Total	0.43	0.21	3.64	1.55	0.02	0.29	—	0.29	0.29	—	0.29	—	4,197	4,197	0.37	0.01	—	4,209

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	12.4	6.22	106	45.2	0.68	8.60	—	8.60	8.60	—	8.60	0.00	134,964	134,964	2.54	0.25	—	135,103
Consumer Products	—	146	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	11.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	37.0	35.1	3.80	405	0.02	0.19	—	0.19	0.14	—	0.14	—	1,080	1,080	0.05	0.01	—	1,084
Total	49.5	199	110	450	0.70	8.78	—	8.78	8.74	—	8.74	0.00	136,044	136,044	2.59	0.26	—	136,187
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	12.4	6.22	106	45.2	0.68	8.60	—	8.60	8.60	—	8.60	0.00	134,964	134,964	2.54	0.25	—	135,103

Consumer Products	—	146	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	11.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	12.4	164	106	45.2	0.68	8.60	—	8.60	8.60	—	8.60	0.00	134,964	134,964	2.54	0.25	—	135,103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.16	0.08	1.33	0.57	0.01	0.11	—	0.11	0.11	—	0.11	0.00	1,530	1,530	0.03	< 0.005	—	1,532
Consumer Products	—	26.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.63	4.38	0.47	50.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	123	123	0.01	< 0.005	—	123
Total	4.78	33.3	1.80	51.2	0.01	0.13	—	0.13	0.13	—	0.13	0.00	1,653	1,653	0.03	< 0.005	—	1,655

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	512	2,652	3,164	52.7	1.27	—	4,858

Total	—	—	—	—	—	—	—	—	—	—	—	512	2,652	3,164	52.7	1.27	—	4,858
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	512	2,652	3,164	52.7	1.27	—	4,858
Total	—	—	—	—	—	—	—	—	—	—	—	512	2,652	3,164	52.7	1.27	—	4,858
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	—	804
Total	—	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	—	804

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	2,838	0.00	2,838	284	0.00	—	9,931
Total	—	—	—	—	—	—	—	—	—	—	—	2,838	0.00	2,838	284	0.00	—	9,931
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	2,838	0.00	2,838	284	0.00	—	9,931

Total	—	—	—	—	—	—	—	—	—	—	—	2,838	0.00	2,838	284	0.00	—	9,931
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	470	0.00	470	47.0	0.00	—	1,644
Total	—	—	—	—	—	—	—	—	—	—	—	470	0.00	470	47.0	0.00	—	1,644

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0	49.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0	49.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0	49.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0	49.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.11	8.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.11	8.11

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	1/1/2024	1/17/2024	5.00	13.0	—
Site Preparation	Site Preparation	1/18/2024	1/29/2024	5.00	8.00	—
Grading	Grading	1/30/2024	2/23/2024	5.00	19.0	—
Building Construction	Building Construction	2/24/2024	11/21/2024	5.00	194	—
Paving	Paving	11/22/2024	12/11/2024	5.00	14.0	—
Architectural Coating	Architectural Coating	12/12/2024	12/31/2024	5.00	14.0	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40

Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

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	256	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	19,648	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	288	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	320	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT

Grading	Hauling	1,056	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	82,048	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	12,192	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	256	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	1,026	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	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

Non-applicable. No control strategies activated by user.

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	13,845,168	4,615,056	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	1,387,637	—
Site Preparation	—	—	12.0	0.00	—
Grading	—	10,000	57.0	0.00	—
Paving	0.00	0.00	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%

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	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	38,744	34,969	29,129	13,443,284	347,007	313,199	260,893	120,404,419

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	6410
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	712
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

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)
13845168	4,615,056	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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	26,108,070	532	0.0330	0.0040	79,102,935

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	267,257,679	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	5,267	—

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

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

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	11.9	annual days of extreme heat
Extreme Precipitation	4.35	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	51.9
AQ-PM	83.2
AQ-DPM	65.4
Drinking Water	75.7
Lead Risk Housing	77.6
Pesticides	0.00
Toxic Releases	86.5
Traffic	30.1
Effect Indicators	—
CleanUp Sites	20.5
Groundwater	52.0
Haz Waste Facilities/Generators	27.1
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	62.5
Cardio-vascular	29.2
Low Birth Weights	30.1
Socioeconomic Factor Indicators	—

Education	44.9
Housing	25.3
Linguistic	63.0
Poverty	58.0
Unemployment	47.0

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	51.79006801
Employed	44.42448351
Median HI	59.23264468
Education	—
Bachelor's or higher	61.18311305
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.52316181
Active commuting	68.9721545
Social	—
2-parent households	49.64711921
Voting	58.29590658
Neighborhood	—
Alcohol availability	29.87296292
Park access	81.35506224
Retail density	90.11933787

Supermarket access	77.18465289
Tree canopy	53.56088798
Housing	—
Homeownership	37.76466059
Housing habitability	49.64711921
Low-inc homeowner severe housing cost burden	67.63762351
Low-inc renter severe housing cost burden	74.79789555
Uncrowded housing	32.59335301
Health Outcomes	—
Insured adults	48.22276402
Arthritis	18.8
Asthma ER Admissions	45.2
High Blood Pressure	25.1
Cancer (excluding skin)	17.3
Asthma	46.1
Coronary Heart Disease	19.3
Chronic Obstructive Pulmonary Disease	25.1
Diagnosed Diabetes	47.0
Life Expectancy at Birth	48.5
Cognitively Disabled	10.2
Physically Disabled	19.5
Heart Attack ER Admissions	30.6
Mental Health Not Good	51.7
Chronic Kidney Disease	35.4
Obesity	61.8
Pedestrian Injuries	78.2
Physical Health Not Good	46.0

Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	33.9
Current Smoker	50.3
No Leisure Time for Physical Activity	48.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	87.9
Elderly	20.2
English Speaking	31.8
Foreign-born	37.3
Outdoor Workers	65.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	51.7
Traffic Density	56.7
Traffic Access	52.6
Other Indices	—
Hardship	49.9
Other Decision Support	—
2016 Voting	71.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	50.0
Healthy Places Index Score for Project Location (b)	58.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction schedule scaled down 16x to one year
Construction: Trips and VMT	Multiplied by 16
Operations: Hearths	Assuming no wood stoves. Transferred default wood-burning fireplaces to gas.

Fullerton Existing Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fullerton Existing
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	18.8
Location	33.87413530896579, -117.92828081166967
County	Orange
City	Fullerton
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5763
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
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
General Office Building	5.47	1000sqft	0.13	5,471	0.00	—	—	—

Industrial Park	2,119	1000sqft	48.6	2,118,566	0.00	—	—	—
Apartments Mid Rise	183	Dwelling Unit	4.82	175,680	0.00	—	545	—
Regional Shopping Center	4,638	1000sqft	106	4,637,709	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	666	783	320	3,692	8.30	13.5	784	797	12.8	199	212	6,808	977,724	984,531	637	41.0	2,590	1,015,267
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	610	730	342	3,273	7.98	13.0	784	797	12.4	199	211	6,808	946,116	952,924	640	42.6	627	982,254
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	506	638	267	2,710	5.94	6.01	575	581	5.66	146	152	5,802	749,097	754,899	624	33.7	1,220	781,751
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	92.3	116	48.8	495	1.08	1.10	105	106	1.03	26.6	27.7	961	124,022	124,982	103	5.57	202	129,428

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	600	562	291	3,323	7.98	4.64	784	789	4.32	199	203	—	815,336	815,336	44.9	36.0	2,015	829,205
Area	63.6	220	6.04	351	0.18	7.15	—	7.15	6.78	—	6.78	1,080	4,705	5,785	5.17	0.02	—	5,919
Energy	2.47	1.24	22.4	18.6	0.13	1.71	—	1.71	1.71	—	1.71	—	149,335	149,335	9.97	0.97	—	149,874
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	8,347	9,959	166	3.99	—	15,294
Waste	—	—	—	—	—	—	—	—	—	—	—	4,116	0.00	4,116	411	0.00	—	14,400
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Total	666	783	320	3,692	8.30	13.5	784	797	12.8	199	212	6,808	977,724	984,531	637	41.0	2,590	1,015,267
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	597	558	316	3,208	7.68	4.64	784	789	4.32	199	203	—	784,965	784,965	47.5	37.7	52.2	797,433
Area	10.3	171	3.46	46.0	0.16	6.62	—	6.62	6.39	—	6.39	1,080	3,468	4,548	5.11	0.01	—	4,678
Energy	2.47	1.24	22.4	18.6	0.13	1.71	—	1.71	1.71	—	1.71	—	149,335	149,335	9.97	0.97	—	149,874
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	8,347	9,959	166	3.99	—	15,294
Waste	—	—	—	—	—	—	—	—	—	—	—	4,116	0.00	4,116	411	0.00	—	14,400
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Total	610	730	342	3,273	7.98	13.0	784	797	12.4	199	211	6,808	946,116	952,924	640	42.6	627	982,254
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	466	436	243	2,480	5.78	3.49	575	578	3.24	146	149	—	590,330	590,330	36.4	28.7	645	600,437
Area	37.2	200	2.00	212	0.02	0.81	—	0.81	0.71	—	0.71	74.0	1,085	1,159	0.39	0.01	—	1,171
Energy	2.47	1.24	22.4	18.6	0.13	1.71	—	1.71	1.71	—	1.71	—	149,335	149,335	9.97	0.97	—	149,874
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	8,347	9,959	166	3.99	—	15,294
Waste	—	—	—	—	—	—	—	—	—	—	—	4,116	0.00	4,116	411	0.00	—	14,400

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Total	506	638	267	2,710	5.94	6.01	575	581	5.66	146	152	5,802	749,097	754,899	624	33.7	1,220	781,751
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	85.1	79.7	44.3	453	1.05	0.64	105	105	0.59	26.6	27.2	—	97,736	97,736	6.03	4.75	107	99,409
Area	6.79	36.5	0.36	38.6	< 0.005	0.15	—	0.15	0.13	—	0.13	12.2	180	192	0.06	< 0.005	—	194
Energy	0.45	0.23	4.09	3.40	0.02	0.31	—	0.31	0.31	—	0.31	—	24,724	24,724	1.65	0.16	—	24,813
Water	—	—	—	—	—	—	—	—	—	—	—	267	1,382	1,649	27.5	0.66	—	2,532
Waste	—	—	—	—	—	—	—	—	—	—	—	681	0.00	681	68.1	0.00	—	2,384
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.2	95.2
Total	92.3	116	48.8	495	1.08	1.10	105	106	1.03	26.6	27.7	961	124,022	124,982	103	5.57	202	129,428

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.17	0.15	0.11	1.32	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.10	—	375	375	0.02	0.01	0.95	381
Industrial Park	22.3	20.3	14.4	177	0.49	0.27	49.4	49.6	0.25	12.5	12.8	—	50,256	50,256	2.05	1.85	127	50,987
Apartments Mid Rise	3.04	2.77	1.89	23.1	0.06	0.03	6.32	6.35	0.03	1.60	1.64	—	6,444	6,444	0.27	0.24	16.2	6,539

Regional Shopping Center	575	539	275	3,122	7.42	4.33	728	732	4.04	185	189	—	758,261	758,261	42.6	33.9	1,871	771,298
Total	600	562	291	3,323	7.98	4.64	784	789	4.32	199	203	—	815,336	815,336	44.9	36.0	2,015	829,205
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.17	0.15	0.12	1.23	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.10	—	361	361	0.02	0.01	0.02	365
Industrial Park	22.2	20.1	15.6	164	0.47	0.27	49.4	49.6	0.25	12.5	12.8	—	48,332	48,332	2.13	1.94	3.29	48,965
Apartments Mid Rise	3.02	2.75	2.05	21.5	0.06	0.03	6.32	6.35	0.03	1.60	1.64	—	6,198	6,198	0.28	0.25	0.42	6,280
Regional Shopping Center	572	535	298	3,021	7.14	4.34	728	732	4.04	185	189	—	730,076	730,076	45.1	35.5	48.5	741,822
Total	597	558	316	3,208	7.68	4.64	784	789	4.32	199	203	—	784,965	784,965	47.5	37.7	52.2	797,433
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.02	0.02	0.02	0.17	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	45.7	45.7	< 0.005	< 0.005	0.05	46.3
Industrial Park	3.52	3.19	2.52	26.9	0.08	0.04	7.78	7.83	0.04	1.98	2.02	—	7,073	7,073	0.31	0.28	7.93	7,172
Apartments Mid Rise	0.52	0.47	0.36	3.81	0.01	0.01	1.08	1.09	0.01	0.27	0.28	—	986	986	0.04	0.04	1.10	1,000
Regional Shopping Center	81.0	76.0	41.4	422	0.97	0.59	95.9	96.5	0.55	24.4	24.9	—	89,631	89,631	5.67	4.43	97.8	91,191
Total	85.1	79.7	44.3	453	1.05	0.64	105	105	0.59	26.6	27.2	—	97,736	97,736	6.03	4.75	107	99,409

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	142	142	0.01	< 0.005	—	143
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	55,025	55,025	3.41	0.41	—	55,234
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	978	978	0.06	0.01	—	981
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	66,387	66,387	4.12	0.50	—	66,638
Total	—	—	—	—	—	—	—	—	—	—	—	—	122,532	122,532	7.60	0.92	—	122,996
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	142	142	0.01	< 0.005	—	143
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	55,025	55,025	3.41	0.41	—	55,234
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	978	978	0.06	0.01	—	981
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	66,387	66,387	4.12	0.50	—	66,638
Total	—	—	—	—	—	—	—	—	—	—	—	—	122,532	122,532	7.60	0.92	—	122,996

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	23.5	23.5	< 0.005	< 0.005	—	23.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	9,110	9,110	0.57	0.07	—	9,145
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	162	162	0.01	< 0.005	—	162
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	10,991	10,991	0.68	0.08	—	11,033
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,287	20,287	1.26	0.15	—	20,363

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	44.4	44.4	< 0.005	< 0.005	—	44.6
Industrial Park	1.59	0.79	14.4	12.1	0.09	1.10	—	1.10	1.10	—	1.10	—	17,209	17,209	1.52	0.03	—	17,257
Apartments Mid Rise	0.06	0.03	0.51	0.22	< 0.005	0.04	—	0.04	0.04	—	0.04	—	651	651	0.06	< 0.005	—	653
Regional Shopping Center	0.82	0.41	7.46	6.26	0.04	0.57	—	0.57	0.57	—	0.57	—	8,899	8,899	0.79	0.02	—	8,923
Total	2.47	1.24	22.4	18.6	0.13	1.71	—	1.71	1.71	—	1.71	—	26,804	26,804	2.37	0.05	—	26,878

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	44.4	44.4	< 0.005	< 0.005	—	44.6
Industrial Park	1.59	0.79	14.4	12.1	0.09	1.10	—	1.10	1.10	—	1.10	—	17,209	17,209	1.52	0.03	—	17,257
Apartments Mid Rise	0.06	0.03	0.51	0.22	< 0.005	0.04	—	0.04	0.04	—	0.04	—	651	651	0.06	< 0.005	—	653
Regional Shopping Center	0.82	0.41	7.46	6.26	0.04	0.57	—	0.57	0.57	—	0.57	—	8,899	8,899	0.79	0.02	—	8,923
Total	2.47	1.24	22.4	18.6	0.13	1.71	—	1.71	1.71	—	1.71	—	26,804	26,804	2.37	0.05	—	26,878
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.36	7.36	< 0.005	< 0.005	—	7.38
Industrial Park	0.29	0.14	2.63	2.21	0.02	0.20	—	0.20	0.20	—	0.20	—	2,849	2,849	0.25	0.01	—	2,857
Apartments Mid Rise	0.01	0.01	0.09	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	108	108	0.01	< 0.005	—	108
Regional Shopping Center	0.15	0.07	1.36	1.14	0.01	0.10	—	0.10	0.10	—	0.10	—	1,473	1,473	0.13	< 0.005	—	1,477
Total	0.45	0.23	4.09	3.40	0.02	0.31	—	0.31	0.31	—	0.31	—	4,438	4,438	0.39	0.01	—	4,450

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	10.3	5.10	3.46	46.0	0.16	6.62	—	6.62	6.39	—	6.39	1,080	3,468	4,548	5.11	0.01	—	4,678
Consumer Products	—	148	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	53.3	49.2	2.57	304	0.02	0.53	—	0.53	0.40	—	0.40	—	1,237	1,237	0.05	0.01	—	1,242
Total	63.6	220	6.04	351	0.18	7.15	—	7.15	6.78	—	6.78	1,080	4,705	5,785	5.17	0.02	—	5,919
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	10.3	5.10	3.46	46.0	0.16	6.62	—	6.62	6.39	—	6.39	1,080	3,468	4,548	5.11	0.01	—	4,678
Consumer Products	—	148	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	10.3	171	3.46	46.0	0.16	6.62	—	6.62	6.39	—	6.39	1,080	3,468	4,548	5.11	0.01	—	4,678
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.13	0.06	0.04	0.58	< 0.005	0.08	—	0.08	0.08	—	0.08	12.2	39.3	51.6	0.06	< 0.005	—	53.0
Consumer Products	—	27.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	3.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	6.66	6.15	0.32	38.1	< 0.005	0.07	—	0.07	0.05	—	0.05	—	140	140	0.01	< 0.005	—	141
Total	6.79	36.5	0.36	38.6	< 0.005	0.15	—	0.15	0.13	—	0.13	12.2	180	192	0.06	< 0.005	—	194

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.86	9.65	11.5	0.19	< 0.005	—	17.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	939	4,861	5,800	96.6	2.32	—	8,906
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	13.2	68.1	81.3	1.35	0.03	—	125
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	658	3,408	4,067	67.7	1.63	—	6,245
Total	—	—	—	—	—	—	—	—	—	—	—	1,612	8,347	9,959	166	3.99	—	15,294
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.86	9.65	11.5	0.19	< 0.005	—	17.7
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	939	4,861	5,800	96.6	2.32	—	8,906
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	13.2	68.1	81.3	1.35	0.03	—	125
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	658	3,408	4,067	67.7	1.63	—	6,245
Total	—	—	—	—	—	—	—	—	—	—	—	1,612	8,347	9,959	166	3.99	—	15,294
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.31	1.60	1.91	0.03	< 0.005	—	2.93
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	155	805	960	16.0	0.38	—	1,475
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	2.18	11.3	13.5	0.22	0.01	—	20.7
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	109	564	673	11.2	0.27	—	1,034
Total	—	—	—	—	—	—	—	—	—	—	—	267	1,382	1,649	27.5	0.66	—	2,532

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.74	0.00	2.74	0.27	0.00	—	9.59
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,416	0.00	1,416	142	0.00	—	4,953
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	72.9	0.00	72.9	7.28	0.00	—	255
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,624	0.00	2,624	262	0.00	—	9,182
Total	—	—	—	—	—	—	—	—	—	—	—	4,116	0.00	4,116	411	0.00	—	14,400
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.74	0.00	2.74	0.27	0.00	—	9.59
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,416	0.00	1,416	142	0.00	—	4,953
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	72.9	0.00	72.9	7.28	0.00	—	255
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,624	0.00	2,624	262	0.00	—	9,182
Total	—	—	—	—	—	—	—	—	—	—	—	4,116	0.00	4,116	411	0.00	—	14,400
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.45	0.00	0.45	0.05	0.00	—	1.59

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	234	0.00	234	23.4	0.00	—	820
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	12.1	0.00	12.1	1.21	0.00	—	42.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	435	0.00	435	43.4	0.00	—	1,520
Total	—	—	—	—	—	—	—	—	—	—	—	681	0.00	681	68.1	0.00	—	2,384

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	551	551
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.3	22.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	551	551
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.3	22.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	575
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	91.3	91.3
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.69	3.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.2	95.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	53.3	12.1	3.83	14,723	521	118	37.4	143,858
Industrial Park	7,140	5,381	2,627	2,278,957	69,761	52,579	25,669	22,267,706
Apartments Mid Rise	996	899	748	345,426	8,927	8,057	6,711	3,097,334
Regional Shopping Center	175,074	213,891	97,856	61,899,534	752,950	1,028,700	470,632	274,484,385

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	165
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	18
Conventional Wood Stoves	0
Catalytic Wood Stoves	9
Non-Catalytic Wood Stoves	9
Pellet Wood Stoves	0

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)

355752	118,584	10,142,619	3,380,873	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
General Office Building	97,495	532	0.0330	0.0040	138,671
Industrial Park	37,753,453	532	0.0330	0.0040	53,698,164
Apartments Mid Rise	670,848	532	0.0330	0.0040	2,032,552
Regional Shopping Center	45,548,639	532	0.0330	0.0040	27,765,705

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	972,381	0.00
Industrial Park	489,918,387	0.00
Apartments Mid Rise	6,867,194	0.00
Regional Shopping Center	343,526,800	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	5.09	—
Industrial Park	2,627	—
Apartments Mid Rise	135	—
Regional Shopping Center	4,870	—

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
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
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
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	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

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

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	11.9	annual days of extreme heat
Extreme Precipitation	4.35	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	51.9
AQ-PM	86.1
AQ-DPM	58.1
Drinking Water	75.7
Lead Risk Housing	74.4
Pesticides	0.00
Toxic Releases	87.7
Traffic	38.0
Effect Indicators	—
CleanUp Sites	83.9
Groundwater	75.4
Haz Waste Facilities/Generators	64.8
Impaired Water Bodies	0.00
Solid Waste	70.4
Sensitive Population	—
Asthma	54.7
Cardio-vascular	23.5
Low Birth Weights	4.18
Socioeconomic Factor Indicators	—

Education	14.8
Housing	49.0
Linguistic	7.38
Poverty	43.7
Unemployment	60.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	70.48633389
Employed	67.86860003
Median HI	62.09418709
Education	—
Bachelor's or higher	71.48723213
High school enrollment	100
Preschool enrollment	90.1321699
Transportation	—
Auto Access	38.0341332
Active commuting	65.0455537
Social	—
2-parent households	48.47940459
Voting	42.12755037
Neighborhood	—
Alcohol availability	27.42204543
Park access	55.25471577
Retail density	82.26613628

Supermarket access	63.40305402
Tree canopy	53.36840755
Housing	—
Homeownership	20.90337482
Housing habitability	28.02515078
Low-inc homeowner severe housing cost burden	69.71641216
Low-inc renter severe housing cost burden	81.41922238
Uncrowded housing	59.34813294
Health Outcomes	—
Insured adults	68.95932247
Arthritis	67.1
Asthma ER Admissions	53.7
High Blood Pressure	69.1
Cancer (excluding skin)	34.5
Asthma	61.7
Coronary Heart Disease	63.8
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	84.4
Life Expectancy at Birth	65.6
Cognitively Disabled	33.5
Physically Disabled	52.4
Heart Attack ER Admissions	40.4
Mental Health Not Good	64.8
Chronic Kidney Disease	79.8
Obesity	81.6
Pedestrian Injuries	19.6
Physical Health Not Good	72.6

Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	8.3
Current Smoker	59.6
No Leisure Time for Physical Activity	66.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	59.5
Elderly	40.9
English Speaking	66.7
Foreign-born	20.6
Outdoor Workers	38.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	28.1
Traffic Density	58.5
Traffic Access	72.9
Other Indices	—
Hardship	27.8
Other Decision Support	—
2016 Voting	66.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	45.0
Healthy Places Index Score for Project Location (b)	68.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Hearths	Assuming natural gas fireplaces instead of wood.