Appendix B

Air Quality and Greenhouse Gas Emissions (GHG) Data

San Anselmo GPU Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	San Anselmo GPU
Operational Year	2045
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.6
Precipitation (days)	45
Location	San Anselmo, CA 94960, USA
County	Marin
City	San Anselmo
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	927
EDFZ	2
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.35

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
Single Family Housing	43	Dwelling Unit	14	83,850	503,653	—	103	—

Single Family Housing	2.0	Dwelling Unit	0.65	3,900	23,426	—	5.0	—
Single Family Housing	452	Dwelling Unit	147	881,400	5,294,211	—	1,085	—
Apartments Mid Rise	41	Dwelling Unit	1.1	39,360	—	—	98	—
Apartments High Rise	248	Dwelling Unit	4.0	238,080	—	—	595	—
Apartments Mid Rise	351	Dwelling Unit	9.2	336,960	—	—	842	—
High Turnover (Sit Down Restaurant)	90	1000sqft	2.1	90,103	—	—	—	—
Strip Mall	635	1000sqft	15	634,566	—	—	—	—
Automobile Care Center	18	1000sqft	0.40	17,536	—	—	—	—
Office Park	9.9	1000sqft	0.23	9,928	—	—	—	—
Retirement Community	203	Dwelling Unit	41	215,180	—	—	487	—
Retirement Community	319	Dwelling Unit	64	338,140	—	—	766	—
Apartments Mid Rise	43	Dwelling Unit	1.1	41,280	—	—	103	—
Apartments Mid Rise	488	Dwelling Unit	13	468,480	—	—	1,171	—
Apartments Mid Rise	82	Dwelling Unit	2.2	78,720	—	—	197	—
Apartments Mid Rise	7.0	Dwelling Unit	0.18	6,720	—	—	17	—

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	253	111	1,361	3.6	4.0	393	397	3.9	99	103	2,506	400,505	403,011	266	12	257	413,449
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	234	124	1,129	3.4	3.9	393	397	3.8	99	103	2,506	380,483	382,989	267	13	170	393,739
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	225	90	1,033	2.9	2.3	327	330	2.2	83	85	2,506	312,177	314,683	265	11	201	324,829
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	41	16	189	0.52	0.42	60	60	0.40	15	16	415	51,684	52,099	44	1.8	33	53,779

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	147	75	1,182	3.4	1.1	393	394	1.1	99	100	—	345,631	345,631	11	11	90	349,227
Area	105	21	171	0.13	1.7	—	1.7	1.6	—	1.6	0.00	24,899	24,899	0.48	0.05	—	24,925
Energy	0.86	15	8.3	0.09	1.2	—	1.2	1.2	—	1.2	—	29,283	29,283	3.4	0.24	—	29,440
Water	—	—	—	—	—	—	—	—	—	—	281	692	973	29	0.70	—	1,904
Waste	—	—	—	—	—	—	—	—	—	—	2,225	0.00	2,225	222	0.00	—	7,784
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167

Total	253	111	1,361	3.6	4.0	393	397	3.9	99	103	2,506	400,505	403,011	266	12	257	413,449
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	144	90	1,112	3.2	1.1	393	394	1.1	99	100	—	326,089	326,089	12	12	2.3	329,999
Area	88	19	8.2	0.12	1.6	—	1.6	1.6	—	1.6	0.00	24,418	24,418	0.46	0.05	—	24,443
Energy	0.86	15	8.3	0.09	1.2	—	1.2	1.2	—	1.2	—	29,283	29,283	3.4	0.24	—	29,440
Water	—	—	—	—	—	—	—	—	—	—	281	692	973	29	0.70	—	1,904
Waste	—	—	—	—	—	—	—	—	—	—	2,225	0.00	2,225	222	0.00	—	7,784
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167
Total	234	124	1,129	3.4	3.9	393	397	3.8	99	103	2,506	380,483	382,989	267	13	170	393,739
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	128	74	944	2.8	0.99	327	328	0.93	83	84	—	281,362	281,362	10.0	10	33	284,693
Area	95	1.2	80	0.01	0.10	—	0.10	0.08	—	0.08	0.00	839	839	0.02	< 0.005	—	840
Energy	0.86	15	8.3	0.09	1.2	—	1.2	1.2	—	1.2	—	29,283	29,283	3.4	0.24	—	29,440
Water	—	—	—	—	—	—	—	—	—	—	281	692	973	29	0.70	—	1,904
Waste	—	—	—	—	—	—	—	—	—	—	2,225	0.00	2,225	222	0.00	—	7,784
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167
Total	225	90	1,033	2.9	2.3	327	330	2.2	83	85	2,506	312,177	314,683	265	11	201	324,829
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	23	14	172	0.51	0.18	60	60	0.17	15	15	—	46,583	46,583	1.6	1.7	5.5	47,134
Area	17	0.22	15	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	139	139	< 0.005	< 0.005	—	139
Energy	0.16	2.7	1.5	0.02	0.22	—	0.22	0.22	—	0.22	—	4,848	4,848	0.56	0.04	—	4,874
Water	—	—	—	—	—	—	—	—	—	—	47	115	161	4.8	0.12	—	315
Waste	—	—	—	—	—	—	—	—	—	—	368	0.00	368	37	0.00	—	1,289
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	28
Total	41	16	189	0.52	0.42	60	60	0.40	15	16	415	51,684	52,099	44	1.8	33	53,779

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.7	2.3	35	0.10	0.03	11	11	0.03	2.8	2.9	—	9,895	9,895	0.32	0.33	2.6	10,003
Apartments Mid Rise	9.5	4.6	70	0.20	0.07	23	23	0.06	5.7	5.8	—	19,938	19,938	0.65	0.66	5.2	20,155
Apartments High Rise	2.4	1.1	17	0.05	0.02	5.6	5.7	0.02	1.4	1.4	—	4,978	4,978	0.16	0.16	1.3	5,032
High Turnover (Sit Down Restaurant)	19	9.5	151	0.44	0.15	50	51	0.14	13	13	—	44,338	44,338	1.3	1.4	12	44,796
Strip Mall	103	53	837	2.4	0.81	279	280	0.76	71	71	—	245,569	245,569	7.5	7.7	64	248,106
Automobile Care Center	2.8	1.5	23	0.07	0.02	7.7	7.7	0.02	2.0	2.0	—	6,786	6,786	0.21	0.21	1.8	6,856
Office Park	1.6	0.83	13	0.04	0.01	4.4	4.4	0.01	1.1	1.1	—	3,842	3,842	0.12	0.12	1.00	3,882
Retirement Community	4.9	2.4	36	0.10	0.03	12	12	0.03	2.9	3.0	—	10,284	10,284	0.34	0.34	2.7	10,396

Total	147	75	1,182	3.4	1.1	393	394	1.1	99	100	—	345,631	345,631	11	11	90	349,227
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.6	2.7	33	0.09	0.03	11	11	0.03	2.8	2.9	—	9,339	9,339	0.36	0.36	0.07	9,457
Apartments Mid Rise	9.3	5.4	67	0.19	0.07	23	23	0.06	5.7	5.8	—	18,817	18,817	0.73	0.73	0.13	19,054
Apartments High Rise	2.3	1.4	17	0.05	0.02	5.6	5.7	0.02	1.4	1.4	—	4,698	4,698	0.18	0.18	0.03	4,758
High Turnover (Sit Down Restaurant)	18	11	142	0.41	0.15	50	51	0.14	13	13	—	41,829	41,829	1.5	1.5	0.30	42,327
Strip Mall	101	63	785	2.3	0.81	279	280	0.76	71	71	—	231,672	231,672	8.2	8.6	1.7	234,430
Automobile Care Center	2.8	1.7	22	0.06	0.02	7.7	7.7	0.02	2.0	2.0	—	6,402	6,402	0.23	0.24	0.05	6,478
Office Park	1.6	0.99	12	0.04	0.01	4.4	4.4	0.01	1.1	1.1	—	3,625	3,625	0.13	0.13	0.03	3,668
Retirement Community	4.8	2.8	34	0.10	0.03	12	12	0.03	2.9	3.0	—	9,706	9,706	0.37	0.38	0.07	9,828
Total	144	90	1,112	3.2	1.1	393	394	1.1	99	100	—	326,089	326,089	12	12	2.3	329,999
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.82	0.45	5.7	0.02	0.01	1.9	1.9	0.01	0.49	0.50	—	1,517	1,517	0.06	0.06	0.18	1,535
Apartments Mid Rise	1.6	0.89	11	0.03	0.01	3.8	3.8	0.01	0.96	0.97	—	2,971	2,971	0.11	0.11	0.35	3,008

Apartment High Rise	0.40	0.22	2.8	0.01	< 0.005	0.96	0.96	< 0.005	0.24	0.24	—	747	747	0.03	0.03	0.09	756
High Turnover (Sit Down Restaurant)	2.5	1.2	15	0.04	0.01	4.4	4.4	0.01	1.1	1.1	—	3,457	3,457	0.16	0.15	0.40	3,505
Strip Mall	17	9.9	128	0.38	0.14	45	45	0.13	11	12	—	35,242	35,242	1.2	1.3	4.2	35,649
Automobile Care Center	0.43	0.22	2.7	0.01	< 0.005	0.84	0.85	< 0.005	0.21	0.22	—	666	666	0.03	0.03	0.08	675
Office Park	0.21	0.13	1.6	< 0.005	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	449	449	0.02	0.02	0.05	454
Retirement Community	0.82	0.46	5.8	0.02	0.01	2.0	2.0	0.01	0.50	0.50	—	1,534	1,534	0.06	0.06	0.18	1,552
Total	23	14	172	0.51	0.18	60	60	0.17	15	15	—	46,583	46,583	1.6	1.7	5.5	47,134

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,952	1,952	0.32	0.04	—	1,972
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,806	1,806	0.29	0.04	—	1,824

Apartme High Rise	—	—	—	—	—	—	—	—	—	—	—	443	443	0.07	0.01	—	447
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2,214	2,214	0.36	0.04	—	2,236
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,961	2,961	0.48	0.06	—	2,990
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	102	102	0.02	< 0.005	—	103
Office Park	—	—	—	—	—	—	—	—	—	—	—	117	117	0.02	< 0.005	—	118
Retireme nt Commun ity	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.16	0.02	—	1,011
Total	—	—	—	—	—	—	—	—	—	—	—	10,594	10,594	1.7	0.21	—	10,699
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,952	1,952	0.32	0.04	—	1,972
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,806	1,806	0.29	0.04	—	1,824
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	443	443	0.07	0.01	—	447
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	2,214	2,214	0.36	0.04	—	2,236
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2,961	2,961	0.48	0.06	—	2,990

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	102	102	0.02	< 0.005	—	103
Office Park	—	—	—	—	—	—	—	—	—	—	—	117	117	0.02	< 0.005	—	118
Retireme nt Commun ity	—	—	—	—	—	—	—	—	—	—	—	1,001	1,001	0.16	0.02	—	1,011
Total	—	—	—	—	—	—	—	—	—	—	—	10,594	10,594	1.7	0.21	—	10,699
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	323	323	0.05	0.01	—	326
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	299	299	0.05	0.01	—	302
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	73	73	0.01	< 0.005	—	74
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	367	367	0.06	0.01	—	370
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	490	490	0.08	0.01	—	495
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	17	17	< 0.005	< 0.005	—	17
Office Park	—	—	—	—	—	—	—	—	—	—	—	19	19	< 0.005	< 0.005	—	20
Retireme nt Commun ity	—	—	—	—	—	—	—	—	—	—	—	166	166	0.03	< 0.005	—	167
Total	—	—	—	—	—	—	—	—	—	—	—	1,754	1,754	0.28	0.03	—	1,771

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.28	4.7	2.0	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,026
Apartments Mid Rise	0.17	2.9	1.2	0.02	0.23	—	0.23	0.23	—	0.23	—	3,643	3,643	0.32	0.01	—	3,653
Apartments High Rise	0.04	0.70	0.30	< 0.005	0.06	—	0.06	0.06	—	0.06	—	893	893	0.08	< 0.005	—	895
High Turnover (Sit Down Restaurant)	0.18	3.2	2.7	0.02	0.24	—	0.24	0.24	—	0.24	—	3,828	3,828	0.34	0.01	—	3,838
Strip Mall	0.06	1.1	0.92	0.01	0.08	—	0.08	0.08	—	0.08	—	1,307	1,307	0.12	< 0.005	—	1,310
Automobile Care Center	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	239	239	0.02	< 0.005	—	240
Office Park	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74	74	0.01	< 0.005	—	74
Retirement Community	0.12	2.1	0.90	0.01	0.17	—	0.17	0.17	—	0.17	—	2,697	2,697	0.24	0.01	—	2,704
Total	0.86	15	8.3	0.09	1.2	—	1.2	1.2	—	1.2	—	18,689	18,689	1.7	0.04	—	18,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	0.28	4.7	2.0	0.03	0.38	—	0.38	0.38	—	0.38	—	6,010	6,010	0.53	0.01	—	6,026
Apartments Mid Rise	0.17	2.9	1.2	0.02	0.23	—	0.23	0.23	—	0.23	—	3,643	3,643	0.32	0.01	—	3,653
Apartments High Rise	0.04	0.70	0.30	< 0.005	0.06	—	0.06	0.06	—	0.06	—	893	893	0.08	< 0.005	—	895
High Turnover (Sit Down Restaurant)	0.18	3.2	2.7	0.02	0.24	—	0.24	0.24	—	0.24	—	3,828	3,828	0.34	0.01	—	3,838
Strip Mall	0.06	1.1	0.92	0.01	0.08	—	0.08	0.08	—	0.08	—	1,307	1,307	0.12	< 0.005	—	1,310
Automobile Care Center	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	239	239	0.02	< 0.005	—	240
Office Park	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74	74	0.01	< 0.005	—	74
Retirement Community	0.12	2.1	0.90	0.01	0.17	—	0.17	0.17	—	0.17	—	2,697	2,697	0.24	0.01	—	2,704
Total	0.86	15	8.3	0.09	1.2	—	1.2	1.2	—	1.2	—	18,689	18,689	1.7	0.04	—	18,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.05	0.86	0.37	0.01	0.07	—	0.07	0.07	—	0.07	—	995	995	0.09	< 0.005	—	998
Apartments Mid Rise	0.03	0.52	0.22	< 0.005	0.04	—	0.04	0.04	—	0.04	—	603	603	0.05	< 0.005	—	605
Apartments High Rise	0.01	0.13	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	148	148	0.01	< 0.005	—	148

High Turnover (Sit Down Restaurant)	0.03	0.59	0.49	< 0.005	0.04	—	0.04	0.04	—	0.04	—	634	634	0.06	< 0.005	—	635
Strip Mall	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	216	216	0.02	< 0.005	—	217
Automobile Care Center	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40	40	< 0.005	< 0.005	—	40
Office Park	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12	12	< 0.005	< 0.005	—	12
Retirement Community	0.02	0.39	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	446	446	0.04	< 0.005	—	448
Total	0.16	2.7	1.5	0.02	0.22	—	0.22	0.22	—	0.22	—	3,094	3,094	0.27	0.01	—	3,103

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.1	19	8.2	0.12	1.6	—	1.6	1.6	—	1.6	0.00	24,418	24,418	0.46	0.05	—	24,443
Consumer Products	75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	17	1.5	163	0.01	0.12	—	0.12	0.09	—	0.09	—	480	480	0.02	< 0.005	—	482
Total	105	21	171	0.13	1.7	—	1.7	1.6	—	1.6	0.00	24,899	24,899	0.48	0.05	—	24,925
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.1	19	8.2	0.12	1.6	—	1.6	1.6	—	1.6	0.00	24,418	24,418	0.46	0.05	—	24,443
Consumer Products	75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	88	19	8.2	0.12	1.6	—	1.6	1.6	—	1.6	0.00	24,418	24,418	0.46	0.05	—	24,443
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	0.09	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	100	100	< 0.005	< 0.005	—	100
Consumer Products	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.5	0.13	15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39	39	< 0.005	< 0.005	—	39
Total	17	0.22	15	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	139	139	< 0.005	< 0.005	—	139

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	29	216	245	3.0	0.07	—	341
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	59	111	169	6.0	0.14	—	363
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	14	27	41	1.5	0.04	—	89
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	52	99	151	5.4	0.13	—	325
Strip Mall	—	—	—	—	—	—	—	—	—	—	90	170	260	9.3	0.22	—	558
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	3.2	6.0	9.1	0.33	0.01	—	20
Office Park	—	—	—	—	—	—	—	—	—	—	3.4	6.4	9.8	0.35	0.01	—	21
Retirement Community	—	—	—	—	—	—	—	—	—	—	30	57	87	3.1	0.07	—	187
Total	—	—	—	—	—	—	—	—	—	—	281	692	973	29	0.70	—	1,904
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	29	216	245	3.0	0.07	—	341
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	59	111	169	6.0	0.14	—	363

Apartme High Rise	—	—	—	—	—	—	—	—	—	—	14	27	41	1.5	0.04	—	89
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	52	99	151	5.4	0.13	—	325
Strip Mall	—	—	—	—	—	—	—	—	—	—	90	170	260	9.3	0.22	—	558
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	3.2	6.0	9.1	0.33	0.01	—	20
Office Park	—	—	—	—	—	—	—	—	—	—	3.4	6.4	9.8	0.35	0.01	—	21
Retireme nt Commun ity	—	—	—	—	—	—	—	—	—	—	30	57	87	3.1	0.07	—	187
Total	—	—	—	—	—	—	—	—	—	—	281	692	973	29	0.70	—	1,904
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	4.8	36	41	0.49	0.01	—	57
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	9.7	18	28	1.00	0.02	—	60
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	2.4	4.5	6.9	0.24	0.01	—	15
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.7	16	25	0.89	0.02	—	54
Strip Mall	—	—	—	—	—	—	—	—	—	—	15	28	43	1.5	0.04	—	92

Automobile	—	—	—	—	—	—	—	—	—	—	0.52	0.99	1.5	0.05	< 0.005	—	3.2
Office Park	—	—	—	—	—	—	—	—	—	—	0.56	1.1	1.6	0.06	< 0.005	—	3.5
Retirement Community	—	—	—	—	—	—	—	—	—	—	5.0	9.5	14	0.51	0.01	—	31
Total	—	—	—	—	—	—	—	—	—	—	47	115	161	4.8	0.12	—	315

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	128	0.00	128	13	0.00	—	449
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	403	0.00	403	40	0.00	—	1,411
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	99	0.00	99	9.9	0.00	—	346
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	578	0.00	578	58	0.00	—	2,022
Strip Mall	—	—	—	—	—	—	—	—	—	—	359	0.00	359	36	0.00	—	1,256

Automobile	—	—	—	—	—	—	—	—	—	—	36	0.00	36	3.6	0.00	—	126
Office Park	—	—	—	—	—	—	—	—	—	—	5.0	0.00	5.0	0.50	0.00	—	17
Retirement Community	—	—	—	—	—	—	—	—	—	—	617	0.00	617	62	0.00	—	2,157
Total	—	—	—	—	—	—	—	—	—	—	2,225	0.00	2,225	222	0.00	—	7,784
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	128	0.00	128	13	0.00	—	449
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	403	0.00	403	40	0.00	—	1,411
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	99	0.00	99	9.9	0.00	—	346
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	578	0.00	578	58	0.00	—	2,022
Strip Mall	—	—	—	—	—	—	—	—	—	—	359	0.00	359	36	0.00	—	1,256
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	36	0.00	36	3.6	0.00	—	126
Office Park	—	—	—	—	—	—	—	—	—	—	5.0	0.00	5.0	0.50	0.00	—	17
Retirement Community	—	—	—	—	—	—	—	—	—	—	617	0.00	617	62	0.00	—	2,157

Total	—	—	—	—	—	—	—	—	—	—	2,225	0.00	2,225	222	0.00	—	7,784
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	21	0.00	21	2.1	0.00	—	74
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	67	0.00	67	6.7	0.00	—	234
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	16	0.00	16	1.6	0.00	—	57
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	96	0.00	96	9.6	0.00	—	335
Strip Mall	—	—	—	—	—	—	—	—	—	—	59	0.00	59	5.9	0.00	—	208
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	6.0	0.00	6.0	0.60	0.00	—	21
Office Park	—	—	—	—	—	—	—	—	—	—	0.82	0.00	0.82	0.08	0.00	—	2.9
Retirement Community	—	—	—	—	—	—	—	—	—	—	102	0.00	102	10	0.00	—	357
Total	—	—	—	—	—	—	—	—	—	—	368	0.00	368	37	0.00	—	1,289

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.9	6.9
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.0	7.0
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.7	1.7
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	141	141
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.0	4.0
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.0	7.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.9	6.9
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.0	7.0

Apartme High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.7	1.7
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	141	141
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.0	4.0
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Retireme nt Commun ity	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.0	7.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	167	167
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.1	1.1
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.2	1.2
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23	23
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65

Automobile	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Retirement Community	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.2	1.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	28

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	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	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	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	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	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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Single Family Housing	195	197	177	70,322	1,365	1,380	1,238	492,460
Single Family Housing	9.1	9.2	8.2	3,271	64	64	58	22,905
Single Family Housing	2,050	2,071	1,858	739,202	14,352	14,505	13,009	5,176,556
Apartments Mid Rise	186	168	140	64,508	1,302	1,175	979	451,742
Apartments High Rise	1,125	1,146	908	400,247	7,875	8,024	6,356	2,802,888
Apartments Mid Rise	1,592	1,436	1,197	552,203	11,145	10,053	8,382	3,867,020
High Turnover (Sit Down Restaurant)	6,818	7,439	8,670	2,617,521	22,352	61,614	71,809	12,784,463
Strip Mall	48,018	45,549	22,134	16,048,035	397,716	377,271	183,327	132,921,468
Automobile Care Center	1,327	1,327	665	449,800	6,202	10,991	5,505	2,477,183
Office Park	751	111	52	204,357	6,222	922	428	1,692,632
Retirement Community	920	780	747	319,577	6,446	5,459	5,231	2,237,964
Retirement Community	1,446	1,225	1,174	502,192	10,129	8,578	8,221	3,516,801

Apartments Mid Rise	195	176	147	67,649	1,365	1,232	1,027	473,738
Apartments Mid Rise	2,213	1,996	1,664	767,735	15,496	13,977	11,653	5,376,370
Apartments Mid Rise	372	335	280	129,005	2,604	2,349	1,958	903,406
Apartments Mid Rise	32	29	24	11,013	222	200	167	77,120

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	9	9
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	34	34
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	0	0
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	2	2
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0

Single Family Housing	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	90	90
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	362	362
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	21	21
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	20	20
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Apartments High Rise	Wood Fireplaces	0	0
Apartments High Rise	Gas Fireplaces	126	126
Apartments High Rise	Propane Fireplaces	0	0
Apartments High Rise	Electric Fireplaces	0	0
Apartments High Rise	No Fireplaces	122	122
Apartments High Rise	Conventional Wood Stoves	0	0
Apartments High Rise	Catalytic Wood Stoves	0	0
Apartments High Rise	Non-Catalytic Wood Stoves	0	0
Apartments High Rise	Pellet Wood Stoves	0	0

Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	179	179
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	172	172
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Wood Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Gas Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Propane Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Electric Fireplaces	0	0
High Turnover (Sit Down Restaurant)	No Fireplaces	0	0
High Turnover (Sit Down Restaurant)	Conventional Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Catalytic Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Non-Catalytic Wood Stoves	0	0
High Turnover (Sit Down Restaurant)	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Automobile Care Center	Wood Fireplaces	0	0

Automobile Care Center	Gas Fireplaces	0	0
Automobile Care Center	Propane Fireplaces	0	0
Automobile Care Center	Electric Fireplaces	0	0
Automobile Care Center	No Fireplaces	0	0
Automobile Care Center	Conventional Wood Stoves	0	0
Automobile Care Center	Catalytic Wood Stoves	0	0
Automobile Care Center	Non-Catalytic Wood Stoves	0	0
Automobile Care Center	Pellet Wood Stoves	0	0
Office Park	Wood Fireplaces	0	0
Office Park	Gas Fireplaces	0	0
Office Park	Propane Fireplaces	0	0
Office Park	Electric Fireplaces	0	0
Office Park	No Fireplaces	0	0
Office Park	Conventional Wood Stoves	0	0
Office Park	Catalytic Wood Stoves	0	0
Office Park	Non-Catalytic Wood Stoves	0	0
Office Park	Pellet Wood Stoves	0	0
Retirement Community	Wood Fireplaces	0	0
Retirement Community	Gas Fireplaces	104	104
Retirement Community	Propane Fireplaces	0	0
Retirement Community	Electric Fireplaces	0	0
Retirement Community	No Fireplaces	99	99
Retirement Community	Conventional Wood Stoves	0	0
Retirement Community	Catalytic Wood Stoves	0	0
Retirement Community	Non-Catalytic Wood Stoves	0	0
Retirement Community	Pellet Wood Stoves	0	0
Retirement Community	Wood Fireplaces	0	0
Retirement Community	Gas Fireplaces	163	163

Retirement Community	Propane Fireplaces	0	0
Retirement Community	Electric Fireplaces	0	0
Retirement Community	No Fireplaces	156	156
Retirement Community	Conventional Wood Stoves	0	0
Retirement Community	Catalytic Wood Stoves	0	0
Retirement Community	Non-Catalytic Wood Stoves	0	0
Retirement Community	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	22	22
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	21	21
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	249	249
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	239	239
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	42	42
Apartments Mid Rise	Propane Fireplaces	0	0

Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	40	40
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	4	4
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	3	3
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	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)
undefined	5,532,442	1,844,147	1,128,200	376,067	—

5.10.3. Landscape Equipment

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)
Single Family Housing	302,232	204	0.0330	0.0040	1,622,395
Single Family Housing	14,057	204	0.0330	0.0040	75,460
Single Family Housing	3,176,946	204	0.0330	0.0040	17,054,017
Apartments Mid Rise	130,905	204	0.0330	0.0040	460,475
Apartments High Rise	791,815	204	0.0330	0.0040	2,785,311
Apartments Mid Rise	1,120,674	204	0.0330	0.0040	3,942,113
High Turnover (Sit Down Restaurant)	3,961,329	204	0.0330	0.0040	11,942,869
Strip Mall	5,297,527	204	0.0330	0.0040	4,077,530
Automobile Care Center	181,819	204	0.0330	0.0040	746,048
Office Park	209,241	204	0.0330	0.0040	231,439
Retirement Community	696,346	204	0.0330	0.0040	3,272,117
Retirement Community	1,094,258	204	0.0330	0.0040	5,141,899
Apartments Mid Rise	137,291	204	0.0330	0.0040	482,937
Apartments Mid Rise	1,558,088	204	0.0330	0.0040	5,480,772
Apartments Mid Rise	261,810	204	0.0330	0.0040	920,949
Apartments Mid Rise	22,350	204	0.0330	0.0040	78,618

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	1,299,546	5,067,962
Single Family Housing	60,444	235,722
Single Family Housing	13,660,344	53,272,511

Apartments Mid Rise	1,239,102	0.00
Apartments High Rise	7,495,056	0.00
Apartments Mid Rise	10,607,922	0.00
High Turnover (Sit Down Restaurant)	27,349,298	0.00
Strip Mall	47,003,904	0.00
Automobile Care Center	1,649,806	0.00
Office Park	1,764,541	0.00
Retirement Community	6,135,066	0.00
Retirement Community	9,640,818	0.00
Apartments Mid Rise	1,299,546	0.00
Apartments Mid Rise	14,748,336	0.00
Apartments Mid Rise	2,478,204	0.00
Apartments Mid Rise	211,554	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	21	0.00
Single Family Housing	1.00	0.00
Single Family Housing	217	0.00
Apartments Mid Rise	30	0.00
Apartments High Rise	183	0.00
Apartments Mid Rise	259	0.00
High Turnover (Sit Down Restaurant)	1,072	0.00
Strip Mall	666	0.00
Automobile Care Center	67	0.00
Office Park	9.2	0.00

Retirement Community	445	0.00
Retirement Community	699	0.00
Apartments Mid Rise	32	0.00
Apartments Mid Rise	361	0.00
Apartments Mid Rise	61	0.00
Apartments Mid Rise	5.2	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0

Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.8	4.0	4.0	18
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18

Retirement Community	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Retirement Community	Household refrigerators and/or freezers	R-134a	1,430	0.22	0.60	0.00	1.00
Retirement Community	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Retirement Community	Household refrigerators and/or freezers	R-134a	1,430	0.22	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	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

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

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	9.1	annual days of extreme heat
Extreme Precipitation	16	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	8.0	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	N/A	N/A	N/A	N/A
Extreme Precipitation	4	0	0	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	N/A	N/A	N/A	N/A
Extreme Precipitation	4	1	1	4
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	7.5
AQ-PM	19

AQ-DPM	20
Drinking Water	7.4
Lead Risk Housing	53
Pesticides	0.00
Toxic Releases	40
Traffic	61
Effect Indicators	—
CleanUp Sites	69
Groundwater	14
Haz Waste Facilities/Generators	24
Impaired Water Bodies	12
Solid Waste	22
Sensitive Population	—
Asthma	2.6
Cardio-vascular	2.4
Low Birth Weights	16
Socioeconomic Factor Indicators	—
Education	0.96
Housing	40
Linguistic	0.00
Poverty	11
Unemployment	53

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	86.07724881

Employed	70.51199795
Median HI	82.11215193
Education	—
Bachelor's or higher	93.12203259
High school enrollment	100
Preschool enrollment	66.45707686
Transportation	—
Auto Access	38.0341332
Active commuting	95.18798922
Social	—
2-parent households	42.30719877
Voting	99.16591813
Neighborhood	—
Alcohol availability	40.60053895
Park access	81.35506224
Retail density	70.02438085
Supermarket access	64.49377647
Tree canopy	98.42166046
Housing	—
Homeownership	65.75131528
Housing habitability	71.83369691
Low-inc homeowner severe housing cost burden	24.38085461
Low-inc renter severe housing cost burden	84.10111639
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	74.96471192
Arthritis	0.0
Asthma ER Admissions	94.4

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	62.6
Cognitively Disabled	43.0
Physically Disabled	33.4
Heart Attack ER Admissions	94.2
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	52.8
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	86.0
Elderly	14.2
English Speaking	98.1
Foreign-born	8.0
Outdoor Workers	82.4

Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.5
Traffic Density	71.0
Traffic Access	69.8
Other Indices	—
Hardship	11.0
Other Decision Support	—
2016 Voting	99.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	3.0
Healthy Places Index Score for Project Location (b)	95
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

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Based on the traffic study