
Appendix B

CalEEMod Outputs

Costa Mesa NWWAB Operation - Updated Project (August 2026) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Costa Mesa NWWAB Operation - Updated Project (August 2026)
Operational Year	2050
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50000
Precipitation (days)	19.6000
Location	33.65724673556326, -117.91388094739006
County	Orange
City	Costa Mesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5940
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.45

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	22,941.0	Dwelling Unit	603.711	22,023,360	0.00000	—	68,364.0	—
General Office Building	1,673.48	1000sqft	38.4179	1,673,482	0.00000	—	—	—
Regional Shopping Center	4,915.85	1000sqft	111.000	4,915,853	0.00000	—	—	—
Hotel	2,092.00	Room	69.7333	627,556	0.00000	—	—	—
Parking Lot	5.00000	Acre	5.00000	0.00000	0.00000	—	—	—
Day-Care Center	104.593	1000sqft	2.40112	104,593	0.00000	—	—	—
Place of Worship	418.370	1000sqft	9.60445	418,370	0.00000	—	—	—
Medical Office Building	522.963	1000sqft	12.0056	522,963	0.00000	—	—	—
Health Club	2,196.45	1000sqft	50.4234	2,196,445	0.00000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.3. 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)

Costa Mesa NWWAB Operation - Updated Project (August 2026) Detailed Report, 8/25/2026

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.	1,832.66	1,740.62	868.517	7,394.95	17.8097	43.8541	1,739.95	1,783.81	43.1747	441.352	484.527	27,958.1	2,252,599	2,280,558	2,902.49	70.8503	1,363.40	2,375,597
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,635.54	1,555.65	887.475	5,337.66	17.1472	42.4679	1,739.95	1,782.42	42.1268	441.352	483.479	27,958.1	2,188,701	2,216,659	2,904.74	73.5846	1,196.79	2,312,402
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,584.07	1,523.76	503.766	5,572.08	12.7164	16.6948	1,405.43	1,422.13	16.1836	356.563	372.747	27,958.1	1,537,553	1,565,511	2,886.24	61.8038	1,252.77	1,657,338
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	289.092	278.086	91.9372	1,016.90	2.32073	3.04681	256.491	259.538	2.95351	65.0728	68.0263	4,628.78	254,560	259,188	477.850	10.2323	207.411	274,391

2.4. 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	818.736	766.285	387.467	5,409.80	14.7791	5.13504	1,739.95	1,745.09	4.79409	441.352	446.146	—	1,505,146	1,505,146	57.7454	58.9573	171.043	1,524,330
Area	999.974	967.360	358.340	1,908.74	2.26974	29.0810	—	29.0810	28.7426	—	28.7426	0.00000	440,091	440,091	8.40996	0.86353	—	440,559

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Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Energy	13.9498	6.97490	122.710	76.4121	0.76090	9.63804	—	9.63804	9.63804	—	9.63804	—	298,662	298,662	32.0366	2.54497	—	300,221
Water	—	—	—	—	—	—	—	—	—	—	—	3,427.81	8,700.39	12,128.2	352.583	8.48456	—	23,471.2
Waste	—	—	—	—	—	—	—	—	—	—	—	24,530.3	0.00000	24,530.3	2,451.71	0.00000	—	85,823.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,192.36	1,192.36
Total	1,832.66	1,740.62	868.517	7,394.95	17.8097	43.8541	1,739.95	1,783.81	43.1747	441.352	484.527	27,958.1	2,252,599	2,280,558	2,902.49	70.8503	1,363.40	2,375,597
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	822.008	769.136	422.268	5,115.51	14.2002	5.13863	1,739.95	1,745.09	4.79752	441.352	446.150	—	1,446,598	1,446,598	60.2209	61.7365	4.43579	1,466,506
Area	799.578	779.539	342.497	145.744	2.18615	27.6913	—	27.6913	27.6913	—	27.6913	0.00000	434,741	434,741	8.18603	0.81860	—	435,189
Energy	13.9498	6.97490	122.710	76.4121	0.76090	9.63804	—	9.63804	9.63804	—	9.63804	—	298,662	298,662	32.0366	2.54497	—	300,221
Water	—	—	—	—	—	—	—	—	—	—	—	3,427.81	8,700.39	12,128.2	352.583	8.48456	—	23,471.2
Waste	—	—	—	—	—	—	—	—	—	—	—	24,530.3	0.00000	24,530.3	2,451.71	0.00000	—	85,823.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,192.36	1,192.36
Total	1,635.54	1,555.65	887.475	5,337.66	17.1472	42.4679	1,739.95	1,782.42	42.1268	441.352	483.479	27,958.1	2,188,701	2,216,659	2,904.74	73.5846	1,196.79	2,312,402
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	670.615	627.269	346.746	4,278.15	11.7485	4.20826	1,405.43	1,409.64	3.92881	356.563	360.492	—	1,196,750	1,196,750	49.1915	50.6874	60.4164	1,213,145
Area	899.502	889.516	34.3100	1,217.51	0.20699	2.84854	—	2.84854	2.61676	—	2.61676	0.00000	33,441.5	33,441.5	0.71406	0.08684	—	33,485.2
Energy	13.9498	6.97490	122.710	76.4121	0.76090	9.63804	—	9.63804	9.63804	—	9.63804	—	298,662	298,662	32.0366	2.54497	—	300,221
Water	—	—	—	—	—	—	—	—	—	—	—	3,427.81	8,700.39	12,128.2	352.583	8.48456	—	23,471.2

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Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Waste	—	—	—	—	—	—	—	—	—	—	—	24,530.3	0.00000	24,530.3	2,451.71	0.00000	—	85,823.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,192.36	1,192.36
Total	1,584.07	1,523.76	503.766	5,572.08	12.7164	16.6948	1,405.43	1,422.13	16.1836	356.563	372.747	27,958.1	1,537,553	1,565,511	2,886.24	61.8038	1,252.77	1,657,338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122.387	114.477	63.2811	780.763	2.14409	0.76801	256.491	257.259	0.71701	65.0728	65.7898	—	198,136	198,136	8.14421	8.39188	10.0026	200,850
Area	164.159	162.337	6.26158	222.196	0.03778	0.51986	—	0.51986	0.47756	—	0.47756	0.00000	5,536.62	5,536.62	0.11822	0.01438	—	5,543.86
Energy	2.54584	1.27292	22.3946	13.9452	0.13886	1.75894	—	1.75894	1.75894	—	1.75894	—	49,446.8	49,446.8	5.30402	0.42135	—	49,705.0
Water	—	—	—	—	—	—	—	—	—	—	—	567.513	1,440.45	2,007.96	58.3742	1.40472	—	3,885.92
Waste	—	—	—	—	—	—	—	—	—	—	—	4,061.27	0.00000	4,061.27	405.909	0.00000	—	14,209.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	197.408	197.408
Total	289.092	278.086	91.9372	1,016.90	2.32073	3.04681	256.491	259.538	2.95351	65.0728	68.0263	4,628.78	254,560	259,188	477.850	10.2323	207.411	274,391

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)

Costa Mesa NWWAB Operation - Updated Project (August 2026) Detailed Report, 8/25/2026

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	207.480	191.751	108.147	1,622.86	4.70964	1.58797	560.340	561.928	1.48320	142.134	143.618	—	479,555	479,555	16.0343	17.1039	55.0831	485,108
General Office Building	26.3612	24.3970	13.6010	202.660	0.58486	0.19774	69.5200	69.7177	0.18469	17.6342	17.8189	—	59,554.1	59,554.1	2.01760	2.14281	6.83402	60,249.9
Regional Shopping Center	386.715	366.585	164.031	2,074.94	5.14214	1.87893	594.199	596.078	1.75291	150.723	152.476	—	523,861	523,861	24.6046	23.7234	58.4115	531,604
Hotel	24.5786	22.7472	12.6813	188.956	0.54531	0.18437	64.8188	65.0032	0.17220	16.4418	16.6140	—	55,526.9	55,526.9	1.88116	1.99790	6.37189	56,175.7
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Day-Care Center	7.42985	7.01389	3.27091	42.8870	0.11036	0.03954	12.8484	12.8879	0.03690	3.25908	3.29598	—	11,241.7	11,241.7	0.48952	0.48174	1.26303	11,398.8
Place of Worship	22.6831	20.9929	11.7033	174.383	0.50326	0.17015	59.8199	59.9901	0.15892	15.1738	15.3327	—	51,244.6	51,244.6	1.73609	1.84382	5.88048	51,843.4
Medical Office Building	35.8027	33.1350	18.4723	275.244	0.79434	0.26856	94.4190	94.6876	0.25083	23.9501	24.2009	—	80,883.9	80,883.9	2.74022	2.91027	9.28167	81,828.9
Health Club	107.686	99.6620	55.5602	827.868	2.38917	0.80777	283.990	284.797	0.75444	72.0360	72.7905	—	243,279	243,279	8.24192	8.75338	27.9170	246,122
Total	818.736	766.285	387.467	5,409.80	14.7791	5.13504	1,739.95	1,745.09	4.79409	441.352	446.146	—	1,505,146	1,505,146	57.7454	58.9573	171.043	1,524,330
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Apartments Mid Rise	207.941	192.184	117.932	1,507.42	4.52267	1.58882	560.340	561.929	1.48401	142.134	143.618	—	460,645	460,645	16.5659	17.8956	1.42851	466,393
General Office Building	26.4250	24.4561	14.8307	188.566	0.56167	0.19785	69.5200	69.7178	0.18479	17.6342	17.8190	—	57,208.6	57,208.6	2.08648	2.24217	0.17723	57,929.1
Regional Shopping Center	388.962	368.485	178.627	2,013.83	4.94547	1.88075	594.199	596.080	1.75465	150.723	152.478	—	503,972	503,972	25.9563	24.8696	1.51483	512,034
Hotel	24.6380	22.8023	13.8278	175.815	0.52369	0.18447	64.8188	65.0033	0.17229	16.4418	16.6141	—	53,340.0	53,340.0	1.94539	2.09055	0.16525	54,011.8
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Day-Care Center	7.46860	7.04690	3.56292	41.2228	0.10610	0.03957	12.8484	12.8879	0.03693	3.25908	3.29601	—	10,810.8	10,810.8	0.51434	0.50481	0.03276	10,974.1
Place of Worship	22.7379	21.0437	12.7614	162.256	0.48330	0.17024	59.8199	59.9902	0.15901	15.1738	15.3328	—	49,226.3	49,226.3	1.79536	1.92932	0.15250	49,846.3
Medical Office Building	35.8893	33.2152	20.1425	256.102	0.76284	0.26871	94.4190	94.6878	0.25097	23.9501	24.2010	—	77,698.2	77,698.2	2.83377	3.04522	0.24071	78,676.8
Health Club	107.946	99.9033	60.5836	770.294	2.29444	0.80822	283.990	284.798	0.75487	72.0360	72.7909	—	233,698	233,698	8.52329	9.15927	0.72399	236,641
Total	822.008	769.136	422.268	5,115.51	14.2002	5.13863	1,739.95	1,745.09	4.79752	441.352	446.150	—	1,446,598	1,446,598	60.2209	61.7365	4.43579	1,466,506
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	35.7379	33.0019	20.5159	267.757	0.79367	0.27566	96.0264	96.3021	0.25748	24.3623	24.6198	—	73,328.3	73,328.3	2.59449	2.82238	3.74483	74,238.0

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
General Office Building	3.61460	3.34250	2.05293	26.6502	0.07846	0.02732	9.48320	9.51052	0.02552	2.40592	2.43144	—	7,248.81	7,248.81	0.26007	0.28143	0.36983	7,339.55
Regional Shopping Center	55.0028	52.1928	24.8754	281.318	0.67044	0.25524	78.3086	78.5638	0.23808	19.8672	20.1053	—	61,980.4	61,980.4	3.28172	3.12086	3.05387	62,995.5
Hotel	4.25610	3.93571	2.41727	31.3800	0.09238	0.03217	11.1662	11.1984	0.03005	2.83292	2.86297	—	8,535.30	8,535.30	0.30622	0.33138	0.43546	8,642.14
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Day-Care Center	1.01661	0.95765	0.49338	5.85562	0.01516	0.00557	1.79593	1.80150	0.00519	0.45564	0.46083	—	1,400.80	1,400.80	0.06422	0.06382	0.07004	1,421.50
Place of Worship	1.45250	1.34316	0.82496	10.7092	0.03153	0.01098	3.81076	3.82174	0.01026	0.96680	0.97706	—	2,912.89	2,912.89	0.10451	0.11309	0.14861	2,949.35
Medical Office Building	4.89831	4.52957	2.78202	36.1149	0.10632	0.03703	12.8511	12.8881	0.03458	3.26038	3.29496	—	9,823.19	9,823.19	0.35243	0.38138	0.50117	9,946.16
Health Club	16.4085	15.1733	9.31926	120.979	0.35615	0.12404	43.0490	43.1730	0.11585	10.9217	11.0375	—	32,906.0	32,906.0	1.18057	1.27755	1.67882	33,317.9
Total	122.387	114.477	63.2811	780.763	2.14409	0.76801	256.491	257.259	0.71701	65.0728	65.7898	—	198,136	198,136	8.14421	8.39188	10.0026	200,850

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)

Costa Mesa NWWAB Operation - Updated Project (August 2026) Detailed Report, 8/25/2026

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	—	—	—	—	—	—	—	—	—	—	—	—	60,086.9	60,086.9	7.60337	0.92162	—	60,551.7
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	21,307.4	21,307.4	2.69623	0.32682	—	21,472.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	34,495.8	34,495.8	4.36508	0.52910	—	34,762.6
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	6,274.51	6,274.51	0.79397	0.09624	—	6,323.04
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	136.319	136.319	0.01725	0.00209	—	137.373
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	467.390	467.390	0.05914	0.00717	—	471.005
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	2,867.46	2,867.46	0.36285	0.04398	—	2,889.64
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	6,658.56	6,658.56	0.84257	0.10213	—	6,710.06
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	15,054.2	15,054.2	1.90495	0.23090	—	15,170.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	147,349	147,349	18.6454	2.26005	—	148,488
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	60,086.9	60,086.9	7.60337	0.92162	—	60,551.7
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	21,307.4	21,307.4	2.69623	0.32682	—	21,472.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	34,495.8	34,495.8	4.36508	0.52910	—	34,762.6
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	6,274.51	6,274.51	0.79397	0.09624	—	6,323.04
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	136.319	136.319	0.01725	0.00209	—	137.373
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	467.390	467.390	0.05914	0.00717	—	471.005
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	2,867.46	2,867.46	0.36285	0.04398	—	2,889.64
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	6,658.56	6,658.56	0.84257	0.10213	—	6,710.06
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	15,054.2	15,054.2	1.90495	0.23090	—	15,170.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	147,349	147,349	18.6454	2.26005	—	148,488
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	9,948.08	9,948.08	1.25882	0.15258	—	10,025.0

Costa Mesa NWWAB Operation - Updated Project (August 2026) Detailed Report, 8/25/2026

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	3,527.68	3,527.68	0.44639	0.05411	—	3,554.97
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	5,711.17	5,711.17	0.72269	0.08760	—	5,755.34
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	1,038.82	1,038.82	0.13145	0.01593	—	1,046.85
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	22.5692	22.5692	0.00286	0.00035	—	22.7437
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	77.3817	77.3817	0.00979	0.00119	—	77.9802
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	474.741	474.741	0.06007	0.00728	—	478.413
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,102.40	1,102.40	0.13950	0.01691	—	1,110.93
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	2,492.39	2,492.39	0.31539	0.03823	—	2,511.67
Total	—	—	—	—	—	—	—	—	—	—	—	—	24,395.2	24,395.2	3.08696	0.37418	—	24,583.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Costa Mesa NWWAB Operation - Updated Project (August 2026) Detailed Report, 8/25/2026

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Apartments Mid Rise	7.52840	3.76420	64.3336	27.3760	0.41064	5.20144	—	5.20144	5.20144	—	5.20144	—	81,660.3	81,660.3	7.22690	0.15376	—	81,886.8
General Office Building	1.25325	0.62663	11.3932	9.57028	0.06836	0.86588	—	0.86588	0.86588	—	0.86588	—	13,594.0	13,594.0	1.20306	0.02560	—	13,631.7
Regional Shopping Center	0.86957	0.43478	7.90517	6.64034	0.04743	0.60079	—	0.60079	0.60079	—	0.60079	—	9,432.18	9,432.18	0.83474	0.01776	—	9,458.34
Hotel	0.53533	0.26767	4.86667	4.08800	0.02920	0.36987	—	0.36987	0.36987	—	0.36987	—	5,806.75	5,806.75	0.51389	0.01093	—	5,822.85
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	0.06483	0.03242	0.58940	0.49510	0.00354	0.04479	—	0.04479	0.04479	—	0.04479	—	703.257	703.257	0.06224	0.00132	—	705.207
Place of Worship	0.52908	0.26454	4.80984	4.04027	0.02886	0.36555	—	0.36555	0.36555	—	0.36555	—	5,738.95	5,738.95	0.50789	0.01081	—	5,754.86
Medical Office Building	0.39164	0.19582	3.56037	2.99071	0.02136	0.27059	—	0.27059	0.27059	—	0.27059	—	4,248.12	4,248.12	0.37596	0.00800	—	4,259.90
Health Club	2.77769	1.38884	25.2517	21.2114	0.15151	1.91913	—	1.91913	1.91913	—	1.91913	—	30,129.5	30,129.5	2.66645	0.05673	—	30,213.1
Total	13.9498	6.97490	122.710	76.4121	0.76090	9.63804	—	9.63804	9.63804	—	9.63804	—	151,313	151,313	13.3911	0.28492	—	151,733
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	7.52840	3.76420	64.3336	27.3760	0.41064	5.20144	—	5.20144	5.20144	—	5.20144	—	81,660.3	81,660.3	7.22690	0.15376	—	81,886.8

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
General Office Building	1.25325	0.62663	11.3932	9.57028	0.06836	0.86588	—	0.86588	0.86588	—	0.86588	—	13,594.0	13,594.0	1.20306	0.02560	—	13,631.7
Regional Shopping Center	0.86957	0.43478	7.90517	6.64034	0.04743	0.60079	—	0.60079	0.60079	—	0.60079	—	9,432.18	9,432.18	0.83474	0.01776	—	9,458.34
Hotel	0.53533	0.26767	4.86667	4.08800	0.02920	0.36987	—	0.36987	0.36987	—	0.36987	—	5,806.75	5,806.75	0.51389	0.01093	—	5,822.85
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	0.06483	0.03242	0.58940	0.49510	0.00354	0.04479	—	0.04479	0.04479	—	0.04479	—	703.257	703.257	0.06224	0.00132	—	705.207
Place of Worship	0.52908	0.26454	4.80984	4.04027	0.02886	0.36555	—	0.36555	0.36555	—	0.36555	—	5,738.95	5,738.95	0.50789	0.01081	—	5,754.86
Medical Office Building	0.39164	0.19582	3.56037	2.99071	0.02136	0.27059	—	0.27059	0.27059	—	0.27059	—	4,248.12	4,248.12	0.37596	0.00800	—	4,259.90
Health Club	2.77769	1.38884	25.2517	21.2114	0.15151	1.91913	—	1.91913	1.91913	—	1.91913	—	30,129.5	30,129.5	2.66645	0.05673	—	30,213.1
Total	13.9498	6.97490	122.710	76.4121	0.76090	9.63804	—	9.63804	9.63804	—	9.63804	—	151,313	151,313	13.3911	0.28492	—	151,733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.37393	0.68697	11.7409	4.99612	0.07494	0.94926	—	0.94926	0.94926	—	0.94926	—	13,519.8	13,519.8	1.19650	0.02546	—	13,557.3
General Office Building	0.22872	0.11436	2.07926	1.74658	0.01248	0.15802	—	0.15802	0.15802	—	0.15802	—	2,250.64	2,250.64	0.19918	0.00424	—	2,256.88

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Regional Shopping Center	0.15870	0.07935	1.44269	1.21186	0.00866	0.10964	—	0.10964	0.10964	—	0.10964	—	1,561.61	1,561.61	0.13820	0.00294	—	1,565.94
Hotel	0.09770	0.04885	0.88817	0.74606	0.00533	0.06750	—	0.06750	0.06750	—	0.06750	—	961.373	961.373	0.08508	0.00181	—	964.040
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	0.01183	0.00592	0.10757	0.09036	0.00065	0.00818	—	0.00818	0.00818	—	0.00818	—	116.432	116.432	0.01030	0.00022	—	116.755
Place of Worship	0.09656	0.04828	0.87780	0.73735	0.00527	0.06671	—	0.06671	0.06671	—	0.06671	—	950.148	950.148	0.08409	0.00179	—	952.783
Medical Office Building	0.07147	0.03574	0.64977	0.54581	0.00390	0.04938	—	0.04938	0.04938	—	0.04938	—	703.324	703.324	0.06224	0.00132	—	705.275
Health Club	0.50693	0.25346	4.60844	3.87109	0.02765	0.35024	—	0.35024	0.35024	—	0.35024	—	4,988.28	4,988.28	0.44146	0.00939	—	5,002.12
Total	2.54584	1.27292	22.3946	13.9452	0.13886	1.75894	—	1.75894	1.75894	—	1.75894	—	25,051.6	25,051.6	2.21706	0.04717	—	25,121.1

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	40.0795	20.0397	342.497	145.744	2.18615	27.6913	—	27.6913	27.6913	—	27.6913	0.00000	434,741	434,741	8.18603	0.81860	—	435,189

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Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Consumer Products	695.145	695.145	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	64.3537	64.3537	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	200.396	187.821	15.8429	1,763.00	0.08359	1.38975	—	1.38975	1.05135	—	1.05135	—	5,350.46	5,350.46	0.22393	0.04492	—	5,369.45
Total	999.974	967.360	358.340	1,908.74	2.26974	29.0810	—	29.0810	28.7426	—	28.7426	0.00000	440,091	440,091	8.40996	0.86353	—	440,559
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	40.0795	20.0397	342.497	145.744	2.18615	27.6913	—	27.6913	27.6913	—	27.6913	0.00000	434,741	434,741	8.18603	0.81860	—	435,189
Consumer Products	695.145	695.145	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	64.3537	64.3537	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	799.578	779.539	342.497	145.744	2.18615	27.6913	—	27.6913	27.6913	—	27.6913	0.00000	434,741	434,741	8.18603	0.81860	—	435,189
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.50099	0.25050	4.28122	1.82179	0.02733	0.34614	—	0.34614	0.34614	—	0.34614	0.00000	4,929.88	4,929.88	0.09283	0.00928	—	4,934.97
Consumer Products	126.864	126.864	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	11.7446	11.7446	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Landscape Equipment	25.0495	23.4777	1.98036	220.375	0.01045	0.17372	—	0.17372	0.13142	—	0.13142	—	606.733	606.733	0.02539	0.00509	—	608.886
Total	164.159	162.337	6.26158	222.196	0.03778	0.51986	—	0.51986	0.47756	—	0.47756	0.00000	5,536.62	5,536.62	0.11822	0.01438	—	5,543.86

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	—	—	—	—	—	—	—	—	—	—	—	1,649.64	4,187.09	5,836.73	169.682	4.08322	—	11,295.6
General Office Building	—	—	—	—	—	—	—	—	—	—	—	569.954	1,446.65	2,016.60	58.6253	1.41076	—	3,902.64
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	697.758	1,771.04	2,468.79	71.7712	1.72710	—	4,777.75
Hotel	—	—	—	—	—	—	—	—	—	—	—	101.689	258.106	359.795	10.4597	0.25170	—	696.297
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	8.59613	21.8185	30.4147	0.88420	0.02128	—	58.8602

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	25.4945	64.7098	90.2043	2.62236	0.06310	—	174.569
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	125.747	319.168	444.914	12.9343	0.31125	—	861.023
Health Club	—	—	—	—	—	—	—	—	—	—	—	248.928	631.824	880.752	25.6047	0.61615	—	1,704.48
Total	—	—	—	—	—	—	—	—	—	—	—	3,427.81	8,700.39	12,128.2	352.583	8.48456	—	23,471.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,649.64	4,187.09	5,836.73	169.682	4.08322	—	11,295.6
General Office Building	—	—	—	—	—	—	—	—	—	—	—	569.954	1,446.65	2,016.60	58.6253	1.41076	—	3,902.64
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	697.758	1,771.04	2,468.79	71.7712	1.72710	—	4,777.75
Hotel	—	—	—	—	—	—	—	—	—	—	—	101.689	258.106	359.795	10.4597	0.25170	—	696.297
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	8.59613	21.8185	30.4147	0.88420	0.02128	—	58.8602
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	25.4945	64.7098	90.2043	2.62236	0.06310	—	174.569

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	125.747	319.168	444.914	12.9343	0.31125	—	861.023
Health Club	—	—	—	—	—	—	—	—	—	—	—	248.928	631.824	880.752	25.6047	0.61615	—	1,704.48
Total	—	—	—	—	—	—	—	—	—	—	—	3,427.81	8,700.39	12,128.2	352.583	8.48456	—	23,471.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	273.117	693.220	966.337	28.0927	0.67602	—	1,870.11
General Office Building	—	—	—	—	—	—	—	—	—	—	—	94.3624	239.509	333.871	9.70609	0.23357	—	646.126
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	115.522	293.215	408.737	11.8825	0.28594	—	791.011
Hotel	—	—	—	—	—	—	—	—	—	—	—	16.8358	42.7324	59.5682	1.73173	0.04167	—	115.280
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	1.42319	3.61231	5.03550	0.14639	0.00352	—	9.74498
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	4.22091	10.7134	14.9344	0.43416	0.01045	—	28.9018
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	20.8188	52.8418	73.6606	2.14141	0.05153	—	142.552
Health Club	—	—	—	—	—	—	—	—	—	—	—	41.2129	104.606	145.819	4.23914	0.10201	—	282.196

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Total	—	—	—	—	—	—	—	—	—	—	—	567.513	1,440.45	2,007.96	58.3742	1.40472	—	3,885.92

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	—	—	—	—	—	—	—	—	—	—	—	9,142.61	0.00000	9,142.61	913.771	0.00000	—	31,986.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	838.771	0.00000	838.771	83.8322	0.00000	—	2,934.57
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,781.81	0.00000	2,781.81	278.032	0.00000	—	9,732.61
Hotel	—	—	—	—	—	—	—	—	—	—	—	617.284	0.00000	617.284	61.6954	0.00000	—	2,159.67
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	73.2800	0.00000	73.2800	7.32407	0.00000	—	256.382
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1,285.21	0.00000	1,285.21	128.452	0.00000	—	4,496.52

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	3,043.93	0.00000	3,043.93	304.230	0.00000	—	10,649.7
Health Club	—	—	—	—	—	—	—	—	—	—	—	6,747.37	0.00000	6,747.37	674.376	0.00000	—	23,606.8
Total	—	—	—	—	—	—	—	—	—	—	—	24,530.3	0.00000	24,530.3	2,451.71	0.00000	—	85,823.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	9,142.61	0.00000	9,142.61	913.771	0.00000	—	31,986.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	838.771	0.00000	838.771	83.8322	0.00000	—	2,934.57
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	2,781.81	0.00000	2,781.81	278.032	0.00000	—	9,732.61
Hotel	—	—	—	—	—	—	—	—	—	—	—	617.284	0.00000	617.284	61.6954	0.00000	—	2,159.67
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	73.2800	0.00000	73.2800	7.32407	0.00000	—	256.382
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1,285.21	0.00000	1,285.21	128.452	0.00000	—	4,496.52
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	3,043.93	0.00000	3,043.93	304.230	0.00000	—	10,649.7

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Health Club	—	—	—	—	—	—	—	—	—	—	—	6,747.37	0.00000	6,747.37	674.376	0.00000	—	23,606.8
Total	—	—	—	—	—	—	—	—	—	—	—	24,530.3	0.00000	24,530.3	2,451.71	0.00000	—	85,823.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,513.66	0.00000	1,513.66	151.285	0.00000	—	5,295.79
General Office Building	—	—	—	—	—	—	—	—	—	—	—	138.868	0.00000	138.868	13.8794	0.00000	—	485.852
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	460.561	0.00000	460.561	46.0314	0.00000	—	1,611.34
Hotel	—	—	—	—	—	—	—	—	—	—	—	102.198	0.00000	102.198	10.2144	0.00000	—	357.558
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	12.1323	0.00000	12.1323	1.21258	0.00000	—	42.4469
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	212.782	0.00000	212.782	21.2668	0.00000	—	744.450
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	503.957	0.00000	503.957	50.3687	0.00000	—	1,763.17
Health Club	—	—	—	—	—	—	—	—	—	—	—	1,117.10	0.00000	1,117.10	111.651	0.00000	—	3,908.37
Total	—	—	—	—	—	—	—	—	—	—	—	4,061.27	0.00000	4,061.27	405.909	0.00000	—	14,209.0

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	157.731	157.731
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.06991	4.06991
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.5992	23.5992
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	981.030	981.030
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.40403	0.40403
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.61610	1.61610
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.3627	13.3627
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.5443	10.5443
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,192.36	1,192.36

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	157.731	157.731
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.06991	4.06991
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.5992	23.5992
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	981.030	981.030
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.40403	0.40403
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.61610	1.61610
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.3627	13.3627
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.5443	10.5443
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,192.36	1,192.36
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.1142	26.1142

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.67382	0.67382
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90711	3.90711
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	162.421	162.421
Day-Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06689	0.06689
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26756	0.26756
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.21235	2.21235
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.74573	1.74573
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	197.408	197.408

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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
Apartments Mid Rise	102,317	92,452.2	77,081.8	35,515,454	793,085	716,622	597,481	275,289,656
General Office Building	13,103.4	2,978.80	937.150	3,620,423	98,396.0	22,368.4	7,037.26	27,186,538
Regional Shopping Center	178,888	218,559	99,988.4	63,248,592	615,928	841,007	384,752	224,495,817
Hotel	12,217.3	11,966.2	8,702.72	4,262,958	91,742.2	89,857.1	65,350.6	32,011,473

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Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Day-Care Center	4,110.50	536.562	504.138	1,125,932	18,185.1	4,029.16	3,785.68	5,148,604
Place of Worship	2,836.55	2,443.28	11,275.1	1,454,843	21,300.3	18,347.1	84,666.9	10,924,729
Medical Office Building	17,796.4	4,382.43	726.919	4,906,200	133,637	32,908.6	5,458.59	36,841,714
Health Club	43,972.8	41,798.3	53,527.4	16,434,900	330,201	313,873	401,949	123,413,212

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	20,647	20,647
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	2,294	2,294
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
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0

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Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
Regional Shopping Center	Wood Fireplaces	0	0
Regional Shopping Center	Gas Fireplaces	0	0
Regional Shopping Center	Propane Fireplaces	0	0
Regional Shopping Center	Electric Fireplaces	0	0
Regional Shopping Center	No Fireplaces	0	0
Regional Shopping Center	Conventional Wood Stoves	0	0
Regional Shopping Center	Catalytic Wood Stoves	0	0
Regional Shopping Center	Non-Catalytic Wood Stoves	0	0
Regional Shopping Center	Pellet Wood Stoves	0	0
Hotel	Wood Fireplaces	0	0
Hotel	Gas Fireplaces	0	0
Hotel	Propane Fireplaces	0	0
Hotel	Electric Fireplaces	0	0
Hotel	No Fireplaces	0	0

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Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Hotel	Conventional Wood Stoves	0	0
Hotel	Catalytic Wood Stoves	0	0
Hotel	Non-Catalytic Wood Stoves	0	0
Hotel	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Day-Care Center	Wood Fireplaces	0	0
Day-Care Center	Gas Fireplaces	0	0
Day-Care Center	Propane Fireplaces	0	0
Day-Care Center	Electric Fireplaces	0	0
Day-Care Center	No Fireplaces	0	0
Day-Care Center	Conventional Wood Stoves	0	0
Day-Care Center	Catalytic Wood Stoves	0	0
Day-Care Center	Non-Catalytic Wood Stoves	0	0

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Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Day-Care Center	Pellet Wood Stoves	0	0
Place of Worship	Wood Fireplaces	0	0
Place of Worship	Gas Fireplaces	0	0
Place of Worship	Propane Fireplaces	0	0
Place of Worship	Electric Fireplaces	0	0
Place of Worship	No Fireplaces	0	0
Place of Worship	Conventional Wood Stoves	0	0
Place of Worship	Catalytic Wood Stoves	0	0
Place of Worship	Non-Catalytic Wood Stoves	0	0
Place of Worship	Pellet Wood Stoves	0	0
Medical Office Building	Wood Fireplaces	0	0
Medical Office Building	Gas Fireplaces	0	0
Medical Office Building	Propane Fireplaces	0	0
Medical Office Building	Electric Fireplaces	0	0
Medical Office Building	No Fireplaces	0	0
Medical Office Building	Conventional Wood Stoves	0	0
Medical Office Building	Catalytic Wood Stoves	0	0
Medical Office Building	Non-Catalytic Wood Stoves	0	0
Medical Office Building	Pellet Wood Stoves	0	0
Health Club	Wood Fireplaces	0	0
Health Club	Gas Fireplaces	0	0

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Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Health Club	Propane Fireplaces	0	0
Health Club	Electric Fireplaces	0	0
Health Club	No Fireplaces	0	0
Health Club	Conventional Wood Stoves	0	0
Health Club	Catalytic Wood Stoves	0	0
Health Club	Non-Catalytic Wood Stoves	0	0
Health Club	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)
44,597,304	14,865,768	15,688,893	5,229,631	13,068.0

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	84,097,900	260.788	0.0330	0.0040	254,802,083
General Office Building	29,821,928	260.788	0.0330	0.0040	42,416,857
Regional Shopping Center	48,280,393	260.788	0.0330	0.0040	29,430,937
Hotel	8,781,832	260.788	0.0330	0.0040	18,118,609
Parking Lot	190,793	260.788	0.0330	0.0040	0.00000
Day-Care Center	654,161	260.788	0.0330	0.0040	2,194,350
Place of Worship	4,013,313	260.788	0.0330	0.0040	17,907,048
Medical Office Building	9,319,350	260.788	0.0330	0.0040	13,255,265
Health Club	21,069,917	260.788	0.0330	0.0040	94,012,111

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	860,875,937	0.00000
General Office Building	297,434,228	0.00000
Regional Shopping Center	364,129,627	0.00000
Hotel	53,067,283	0.00000
Parking Lot	0.00000	0.00000
Day-Care Center	4,485,949	0.00000
Place of Worship	13,304,496	0.00000

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Medical Office Building	65,621,678	0.00000
Health Club	129,904,663	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	16,964.1	0.00000
General Office Building	1,556.34	0.00000
Regional Shopping Center	5,161.65	0.00000
Hotel	1,145.37	0.00000
Parking Lot	0.00000	0.00000
Day-Care Center	135.971	0.00000
Place of Worship	2,384.71	0.00000
Medical Office Building	5,648.00	0.00000
Health Club	12,519.7	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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Land Use	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	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Hotel	Household refrigerators and/or freezers	R-134a	1,430.00	0.00000	0.60000	0.00000	1.000000
Hotel	Other commercial A/C and heat pumps	R-410A	2,088.00	1.80000	4.00000	4.00000	18.0000
Hotel	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Day-Care Center	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Day-Care Center	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Day-Care Center	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000

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Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Day-Care Center	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.00004	1.000000	0.00000	1.000000
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.45455	0.60000	0.00000	1.000000
Medical Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00230	4.00000	4.00000	18.0000
Health Club	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000

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
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	9.33000	annual days of extreme heat
Extreme Precipitation	3.30000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00000	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 $\frac{3}{4}$ 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

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Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
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	50.5414
AQ-PM	56.9011
AQ-DPM	55.8930
Drinking Water	6.18209
Lead Risk Housing	54.6944
Pesticides	0.00000
Toxic Releases	85.2088
Traffic	56.0125
Effect Indicators	—
CleanUp Sites	25.6252
Groundwater	10.6425
Haz Waste Facilities/Generators	61.5751

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Indicator	Result for Project Census Tract
Impaired Water Bodies	0.00000
Solid Waste	0.00000
Sensitive Population	—
Asthma	21.9217
Cardio-vascular	13.8210
Low Birth Weights	10.1873
Socioeconomic Factor Indicators	—
Education	23.2979
Housing	36.6540
Linguistic	16.3622
Poverty	15.3266
Unemployment	21.1088

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	65.94379571
Employed	88.70781471
Median HI	68.93365841
Education	—

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Indicator	Result for Project Census Tract
Bachelor's or higher	73.29654818
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	58.09059412
Active commuting	36.45579366
Social	—
2-parent households	64.48094444
Voting	37.41819582
Neighborhood	—
Alcohol availability	37.02040293
Park access	81.35506224
Retail density	78.86564866
Supermarket access	67.23983062
Tree canopy	31.97741563
Housing	—
Homeownership	44.28333119
Housing habitability	75.02887206
Low-inc homeowner severe housing cost burden	83.84447581
Low-inc renter severe housing cost burden	59.15565251
Uncrowded housing	75.52932119

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Indicator	Result for Project Census Tract
Health Outcomes	—
Insured adults	61.8760426
Arthritis	50.5
Asthma ER Admissions	67.2
High Blood Pressure	68.0
Cancer (excluding skin)	22.7
Asthma	55.1
Coronary Heart Disease	51.0
Chronic Obstructive Pulmonary Disease	53.7
Diagnosed Diabetes	84.4
Life Expectancy at Birth	64.0
Cognitively Disabled	30.7
Physically Disabled	62.2
Heart Attack ER Admissions	75.7
Mental Health Not Good	62.3
Chronic Kidney Disease	73.0
Obesity	78.0
Pedestrian Injuries	19.6
Physical Health Not Good	68.2
Stroke	58.2
Health Risk Behaviors	—

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Indicator	Result for Project Census Tract
Binge Drinking	8.3
Current Smoker	58.7
No Leisure Time for Physical Activity	68.2
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	58.1
Elderly	46.6
English Speaking	76.2
Foreign-born	25.6
Outdoor Workers	32.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	24.0
Traffic Density	46.8
Traffic Access	68.2
Other Indices	—
Hardship	17.0
Other Decision Support	—
2016 Voting	65.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	10.00000
Healthy Places Index Score for Project Location (b)	79.0000
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
Land Use	Revised to reflect updated project.
Operations: Vehicle Data	ITE 12

Screen	Justification
Operations: Hearths	No wood stoves/fireplaces
Operations: Water and Waste Water	Default values

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	112.852	111.000
Landscape Area	sq. ft	—	0.00000
Building Area	sq. ft	3,037,584	627,556
Landscape Area	sq. ft	—	0.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Apartments Mid Rise	Weekday Trip Rate	size/day	5.44000	4.46000
Apartments Mid Rise	Saturday Trip Rate	size/day	4.91000	4.03000
Apartments Mid Rise	Sunday Trip Rate	size/day	4.09000	3.36000
General Office Building	Weekday Trip Rate	size/day	9.74000	7.83000
General Office Building	Saturday Trip Rate	size/day	2.21000	1.78000
General Office Building	Sunday Trip Rate	size/day	0.70000	0.56000

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Land Use	Model Parameter	Units	Default Value	New Value
Regional Shopping Center	Weekday Trip Rate	size/day	37.7500	36.3900
Regional Shopping Center	Saturday Trip Rate	size/day	46.1200	44.4600
Regional Shopping Center	Sunday Trip Rate	size/day	21.1000	20.3400
Hotel	Weekday Trip Rate	size/day	8.36000	5.84000
Hotel	Saturday Trip Rate	size/day	8.19000	5.72000
Hotel	Sunday Trip Rate	size/day	5.95000	4.16000
Day-Care Center	Weekday Trip Rate	size/day	47.6200	39.3000
Day-Care Center	Saturday Trip Rate	size/day	6.22000	5.13000
Day-Care Center	Sunday Trip Rate	size/day	5.84000	4.82000
Place of Worship	Weekday Trip Rate	size/day	6.95000	6.78000
Place of Worship	Saturday Trip Rate	size/day	5.99000	5.84000
Place of Worship	Sunday Trip Rate	size/day	27.6300	26.9500
Medical Office Building	Weekday Trip Rate	size/day	34.8000	34.0300
Medical Office Building	Saturday Trip Rate	size/day	8.57000	8.38000
Medical Office Building	Sunday Trip Rate	size/day	1.42000	1.39000
Health Club	Weekday Trip Rate	size/day	32.9300	20.0200
Health Club	Saturday Trip Rate	size/day	20.8700	19.0300
Health Club	Sunday Trip Rate	size/day	26.7300	24.3700

8.5.2. Area Sources

8.5.2.1. Hearths

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Land Use	Model Parameter	Default Value	New Value
Apartments Mid Rise	Wood Fireplaces	1,147	0
Apartments Mid Rise	Gas Fireplaces	19,500	20,647
Apartments Mid Rise	No Fireplaces	2,294	2,294
Apartments Mid Rise	Catalytic Wood Stoves	1,147	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	1,147	0

8.5.4. Water and Waste Water

Land Use	Model Parameter	Units	Default Value	New Value
Place of Worship	Indoor Water	gal/year	13,090,341	13,304,496