Redlands Lugonia Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Redlands Lugonia
Construction Start Date	4/1/2024
Operational Year	2026
Lead Agency	South Coast
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	24.0
Location	34.05622292416933, -117.18919942027543
County	San Bernardino-South Coast
City	Redlands
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5369
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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	18.0	Dwelling Unit	6.49	35,100	210,831	—	60.0	—
Condo/Townhouse	72.0	Dwelling Unit	4.50	76,320	0.00	—	238	—
Apartments Mid Rise	451	Dwelling Unit	8.58	432,960	0.00	—	1,493	—
Parking Lot	744	Space	6.70	0.00	0.00	—	—	—
Enclosed Parking Structure	201	Space	0.00	80,400	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-9	Use Dust Suppressants
Construction	C-10-A	Water Exposed Surfaces
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-13	Use Low-VOC Paints for Construction
Waste	S-1/S-2	Implement Waste Reduction Plan
Area Sources	AS-1	Use Low-VOC Cleaning Supplies
Area Sources	AS-2	Use Low-VOC Paints

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.19	58.6	29.6	71.4	0.08	1.07	7.37	8.44	0.99	1.75	2.74	—	16,320	16,320	0.74	0.63	30.2	16,558
Mit.	6.19	58.6	29.6	71.4	0.08	1.07	7.37	8.44	0.99	1.75	2.74	—	16,320	16,320	0.74	0.63	30.2	16,558

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.05	58.4	30.0	62.3	0.08	1.07	7.37	8.44	0.99	1.75	2.74	—	15,729	15,729	0.61	0.65	0.78	15,935
Mit.	6.05	58.4	30.0	62.3	0.08	1.07	7.37	8.44	0.99	1.75	2.74	—	15,729	15,729	0.61	0.65	0.78	15,935
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.15	11.9	15.4	33.6	0.04	0.53	4.26	4.79	0.49	1.02	1.50	—	8,525	8,525	0.43	0.41	8.63	8,667
Mit.	3.15	11.9	15.4	33.6	0.04	0.53	4.26	4.79	0.49	1.02	1.50	—	8,525	8,525	0.43	0.41	8.63	8,667
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.57	2.18	2.81	6.13	0.01	0.10	0.78	0.87	0.09	0.19	0.27	—	1,411	1,411	0.07	0.07	1.43	1,435
Mit.	0.57	2.18	2.81	6.13	0.01	0.10	0.78	0.87	0.09	0.19	0.27	—	1,411	1,411	0.07	0.07	1.43	1,435
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	5.01	4.24	23.1	56.6	0.06	0.85	6.06	6.90	0.78	1.44	2.23	—	12,511	12,511	0.60	0.57	30.2	12,727
2025	4.55	3.83	21.1	53.6	0.06	0.74	6.06	6.79	0.68	1.44	2.13	—	12,347	12,347	0.59	0.57	27.9	12,561

2026	6.19	58.6	29.6	71.4	0.08	1.07	7.37	8.44	0.99	1.75	2.74	—	16,320	16,320	0.74	0.63	30.1	16,558
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.88	4.11	23.6	48.0	0.06	0.85	6.06	6.90	0.78	1.44	2.23	—	12,011	12,011	0.61	0.57	0.78	12,198
2025	4.42	3.70	21.4	45.7	0.06	0.74	6.06	6.79	0.68	1.44	2.13	—	11,860	11,860	0.60	0.57	0.72	12,046
2026	6.05	58.4	30.0	62.3	0.08	1.07	7.37	8.44	0.99	1.75	2.74	—	15,729	15,729	0.54	0.65	0.78	15,935
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.29	1.93	11.6	22.5	0.03	0.45	2.64	3.09	0.41	0.61	1.03	—	5,333	5,333	0.27	0.24	5.48	5,417
2025	3.15	2.63	15.4	33.6	0.04	0.53	4.26	4.79	0.49	1.02	1.50	—	8,525	8,525	0.43	0.41	8.63	8,667
2026	2.80	11.9	13.4	29.9	0.04	0.45	3.89	4.34	0.41	0.93	1.34	—	7,740	7,740	0.27	0.36	7.09	7,862
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.42	0.35	2.11	4.11	< 0.005	0.08	0.48	0.56	0.08	0.11	0.19	—	883	883	0.04	0.04	0.91	897
2025	0.57	0.48	2.81	6.13	0.01	0.10	0.78	0.87	0.09	0.19	0.27	—	1,411	1,411	0.07	0.07	1.43	1,435
2026	0.51	2.18	2.45	5.45	0.01	0.08	0.71	0.79	0.08	0.17	0.24	—	1,281	1,281	0.04	0.06	1.17	1,302

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	5.01	4.24	23.1	56.6	0.06	0.85	6.06	6.90	0.78	1.44	2.23	—	12,511	12,511	0.60	0.57	30.2	12,727
2025	4.55	3.83	21.1	53.6	0.06	0.74	6.06	6.79	0.68	1.44	2.13	—	12,347	12,347	0.59	0.57	27.9	12,561
2026	6.19	58.6	29.6	71.4	0.08	1.07	7.37	8.44	0.99	1.75	2.74	—	16,320	16,320	0.74	0.63	30.1	16,558
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.88	4.11	23.6	48.0	0.06	0.85	6.06	6.90	0.78	1.44	2.23	—	12,011	12,011	0.61	0.57	0.78	12,198

2025	4.42	3.70	21.4	45.7	0.06	0.74	6.06	6.79	0.68	1.44	2.13	—	11,860	11,860	0.60	0.57	0.72	12,046
2026	6.05	58.4	30.0	62.3	0.08	1.07	7.37	8.44	0.99	1.75	2.74	—	15,729	15,729	0.54	0.65	0.78	15,935
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.29	1.93	11.6	22.5	0.03	0.45	2.56	3.01	0.41	0.60	1.02	—	5,333	5,333	0.27	0.24	5.48	5,417
2025	3.15	2.63	15.4	33.6	0.04	0.53	4.26	4.79	0.49	1.02	1.50	—	8,525	8,525	0.43	0.41	8.63	8,667
2026	2.80	11.9	13.4	29.9	0.04	0.45	3.89	4.34	0.41	0.93	1.34	—	7,740	7,740	0.27	0.36	7.09	7,862
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.42	0.35	2.11	4.11	< 0.005	0.08	0.47	0.55	0.08	0.11	0.19	—	883	883	0.04	0.04	0.91	897
2025	0.57	0.48	2.81	6.13	0.01	0.10	0.78	0.87	0.09	0.19	0.27	—	1,411	1,411	0.07	0.07	1.43	1,435
2026	0.51	2.18	2.45	5.45	0.01	0.08	0.71	0.79	0.08	0.17	0.24	—	1,281	1,281	0.04	0.06	1.17	1,302

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.3	31.5	25.2	188	0.44	1.03	33.3	34.3	1.02	8.46	9.47	261	54,076	54,337	28.5	1.88	138	55,747
Mit.	21.3	30.6	25.2	188	0.44	1.03	33.3	34.3	1.02	8.46	9.47	97.7	54,076	54,174	12.2	1.88	138	55,175
% Reduced	—	3%	—	—	—	—	—	—	—	—	—	63%	—	< 0.5%	57%	—	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.8	27.2	26.0	128	0.42	1.01	33.3	34.3	1.00	8.46	9.45	261	51,525	51,786	28.6	1.93	7.37	53,083
Mit.	16.8	26.3	26.0	128	0.42	1.01	33.3	34.3	1.00	8.46	9.45	97.7	51,525	51,622	12.3	1.93	7.37	52,512
% Reduced	—	3%	—	—	—	—	—	—	—	—	—	63%	—	< 0.5%	57%	—	—	1%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.3	28.9	19.4	153	0.38	0.45	33.3	33.8	0.44	8.46	8.89	261	42,953	43,214	28.4	1.93	61.7	44,561
Mit.	18.3	28.0	19.4	153	0.38	0.45	33.3	33.8	0.44	8.46	8.89	97.7	42,953	43,051	12.1	1.93	61.7	43,990
% Reduced	—	3%	—	—	—	—	—	—	—	—	—	63%	—	< 0.5%	57%	—	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.34	5.28	3.54	28.0	0.07	0.08	6.08	6.16	0.08	1.54	1.62	43.2	7,111	7,155	4.70	0.32	10.2	7,378
Mit.	3.34	5.12	3.54	28.0	0.07	0.08	6.08	6.16	0.08	1.54	1.62	16.2	7,111	7,128	2.00	0.32	10.2	7,283
% Reduced	—	3%	—	—	—	—	—	—	—	—	—	63%	—	< 0.5%	57%	—	—	1%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.7	15.0	15.5	150	0.38	0.25	33.3	33.6	0.24	8.46	8.70	—	39,103	39,103	1.66	1.71	134	39,789
Area	4.39	16.4	7.95	37.4	0.05	0.63	—	0.63	0.64	—	0.64	0.00	9,779	9,779	0.19	0.02	—	9,789
Energy	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	5,027	5,027	0.46	0.04	—	5,050
Water	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Waste	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	762
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	21.3	31.5	25.2	188	0.44	1.03	33.3	34.3	1.02	8.46	9.47	261	54,076	54,337	28.5	1.88	138	55,747
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	15.7	14.0	16.6	124	0.36	0.25	33.3	33.6	0.24	8.46	8.70	—	36,649	36,649	1.72	1.77	3.47	37,222
Area	0.89	13.1	7.63	3.25	0.05	0.62	—	0.62	0.62	—	0.62	0.00	9,683	9,683	0.18	0.02	—	9,693
Energy	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	5,027	5,027	0.46	0.04	—	5,050
Water	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Waste	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	762
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	16.8	27.2	26.0	128	0.42	1.01	33.3	34.3	1.00	8.46	9.45	261	51,525	51,786	28.6	1.93	7.37	53,083
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.7	13.9	16.9	129	0.36	0.25	33.3	33.6	0.24	8.46	8.70	—	37,030	37,030	1.72	1.78	57.8	37,662
Area	2.45	14.9	0.75	23.6	< 0.005	0.05	—	0.05	0.06	—	0.06	0.00	729	729	0.02	< 0.005	—	730
Energy	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	5,027	5,027	0.46	0.04	—	5,050
Water	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Waste	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	762
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	18.3	28.9	19.4	153	0.38	0.45	33.3	33.8	0.44	8.46	8.89	261	42,953	43,214	28.4	1.93	61.7	44,561
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.86	2.54	3.09	23.5	0.07	0.05	6.08	6.12	0.04	1.54	1.59	—	6,131	6,131	0.28	0.30	9.57	6,235
Area	0.45	2.72	0.14	4.31	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	121	121	< 0.005	< 0.005	—	121
Energy	0.04	0.02	0.32	0.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	832	832	0.08	0.01	—	836
Water	—	—	—	—	—	—	—	—	—	—	—	7.15	27.6	34.7	0.74	0.02	—	58.4
Waste	—	—	—	—	—	—	—	—	—	—	—	36.1	0.00	36.1	3.60	0.00	—	126
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
Total	3.34	5.28	3.54	28.0	0.07	0.08	6.08	6.16	0.08	1.54	1.62	43.2	7,111	7,155	4.70	0.32	10.2	7,378

2.6. Operations Emissions by Sector, Mitigated

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

Sector	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	16.7	15.0	15.5	150	0.38	0.25	33.3	33.6	0.24	8.46	8.70	—	39,103	39,103	1.66	1.71	134	39,789
Area	4.39	15.5	7.95	37.4	0.05	0.63	—	0.63	0.64	—	0.64	0.00	9,779	9,779	0.19	0.02	—	9,789
Energy	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	5,027	5,027	0.46	0.04	—	5,050
Water	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Waste	—	—	—	—	—	—	—	—	—	—	—	54.5	0.00	54.5	5.44	0.00	—	191
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	21.3	30.6	25.2	188	0.44	1.03	33.3	34.3	1.02	8.46	9.47	97.7	54,076	54,174	12.2	1.88	138	55,175
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.7	14.0	16.6	124	0.36	0.25	33.3	33.6	0.24	8.46	8.70	—	36,649	36,649	1.72	1.77	3.47	37,222
Area	0.89	12.2	7.63	3.25	0.05	0.62	—	0.62	0.62	—	0.62	0.00	9,683	9,683	0.18	0.02	—	9,693
Energy	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	5,027	5,027	0.46	0.04	—	5,050
Water	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Waste	—	—	—	—	—	—	—	—	—	—	—	54.5	0.00	54.5	5.44	0.00	—	191
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	16.8	26.3	26.0	128	0.42	1.01	33.3	34.3	1.00	8.46	9.45	97.7	51,525	51,622	12.3	1.93	7.37	52,512
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.7	13.9	16.9	129	0.36	0.25	33.3	33.6	0.24	8.46	8.70	—	37,030	37,030	1.72	1.78	57.8	37,662
Area	2.45	14.0	0.75	23.6	< 0.005	0.05	—	0.05	0.06	—	0.06	0.00	729	729	0.02	< 0.005	—	730
Energy	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	5,027	5,027	0.46	0.04	—	5,050
Water	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Waste	—	—	—	—	—	—	—	—	—	—	—	54.5	0.00	54.5	5.44	0.00	—	191
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90

Total	18.3	28.0	19.4	153	0.38	0.45	33.3	33.8	0.44	8.46	8.89	97.7	42,953	43,051	12.1	1.93	61.7	43,990
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.86	2.54	3.09	23.5	0.07	0.05	6.08	6.12	0.04	1.54	1.59	—	6,131	6,131	0.28	0.30	9.57	6,235
Area	0.45	2.56	0.14	4.31	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	121	121	< 0.005	< 0.005	—	121
Energy	0.04	0.02	0.32	0.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	832	832	0.08	0.01	—	836
Water	—	—	—	—	—	—	—	—	—	—	—	7.15	27.6	34.7	0.74	0.02	—	58.4
Waste	—	—	—	—	—	—	—	—	—	—	—	9.02	0.00	9.02	0.90	0.00	—	31.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
Total	3.34	5.12	3.54	28.0	0.07	0.08	6.08	6.16	0.08	1.54	1.62	16.2	7,111	7,128	2.00	0.32	10.2	7,283

3. Construction Emissions Details

3.1. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.03	1.70	13.9	14.7	0.02	0.76	—	0.76	0.70	—	0.70	—	2,153	2,153	0.09	0.02	—	2,160
Dust From Material Movement	—	—	—	—	—	—	1.06	1.06	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.21	1.72	1.81	< 0.005	0.09	—	0.09	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Dust From Material Movement	—	—	—	—	—	—	0.13	0.13	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.31	0.33	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.48	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	252	252	0.01	0.01	1.01	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.9	28.9	< 0.005	< 0.005	0.05	29.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.78	4.78	< 0.005	< 0.005	0.01	4.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Grading (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.03	1.70	13.9	14.7	0.02	0.76	—	0.76	0.70	—	0.70	—	2,153	2,153	0.09	0.02	—	2,160
Dust From Material Movement	—	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.21	1.72	1.81	< 0.005	0.09	—	0.09	0.09	—	0.09	—	265	265	0.01	< 0.005	—	266
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.31	0.33	< 0.005	0.02	—	0.02	0.02	—	0.02	—	43.9	43.9	< 0.005	< 0.005	—	44.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.48	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	252	252	0.01	0.01	1.01	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.9	28.9	< 0.005	< 0.005	0.05	29.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.78	4.78	< 0.005	< 0.005	0.01	4.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.5	20.0	0.04	0.82	—	0.82	0.75	—	0.75	—	4,284	4,284	0.17	0.03	—	4,298
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.5	20.0	0.04	0.82	—	0.82	0.75	—	0.75	—	4,284	4,284	0.17	0.03	—	4,298
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.73	8.33	0.02	0.34	—	0.34	0.31	—	0.31	—	1,786	1,786	0.07	0.01	—	1,792
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.41	1.52	< 0.005	0.06	—	0.06	0.06	—	0.06	—	296	296	0.01	< 0.005	—	297
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.39	2.18	2.02	35.3	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	6,001	6,001	0.25	0.21	24.0	6,093
Vendor	0.24	0.06	2.55	1.37	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,226	2,226	0.17	0.33	6.21	2,336
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.27	2.05	2.38	26.6	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,500	5,500	0.26	0.21	0.62	5,569
Vendor	0.23	0.06	2.66	1.39	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,227	2,227	0.17	0.33	0.16	2,331
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.85	0.99	11.7	0.00	0.00	2.24	2.24	0.00	0.52	0.52	—	2,325	2,325	0.11	0.09	4.32	2,358
Vendor	0.10	0.03	1.12	0.58	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	928	928	0.07	0.14	1.11	972
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.18	2.13	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	385	385	0.02	0.01	0.71	390
Vendor	0.02	< 0.005	0.20	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	154	154	0.01	0.02	0.18	161
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Building Construction (2024) - Mitigated

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

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

Off-Road Equipment	2.38	2.00	18.5	20.0	0.04	0.82	—	0.82	0.75	—	0.75	—	4,284	4,284	0.17	0.03	—	4,298
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.5	20.0	0.04	0.82	—	0.82	0.75	—	0.75	—	4,284	4,284	0.17	0.03	—	4,298
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.73	8.33	0.02	0.34	—	0.34	0.31	—	0.31	—	1,786	1,786	0.07	0.01	—	1,792
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.41	1.52	< 0.005	0.06	—	0.06	0.06	—	0.06	—	296	296	0.01	< 0.005	—	297
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.39	2.18	2.02	35.3	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	6,001	6,001	0.25	0.21	24.0	6,093
Vendor	0.24	0.06	2.55	1.37	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,226	2,226	0.17	0.33	6.21	2,336
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.27	2.05	2.38	26.6	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,500	5,500	0.26	0.21	0.62	5,569

Vendor	0.23	0.06	2.66	1.39	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,227	2,227	0.17	0.33	0.16	2,331
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.85	0.99	11.7	0.00	0.00	2.24	2.24	0.00	0.52	0.52	—	2,325	2,325	0.11	0.09	4.32	2,358
Vendor	0.10	0.03	1.12	0.58	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	928	928	0.07	0.14	1.11	972
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.18	2.13	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	385	385	0.02	0.01	0.71	390
Vendor	0.02	< 0.005	0.20	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	154	154	0.01	0.02	0.18	161
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.21	1.85	16.8	19.9	0.04	0.71	—	0.71	0.65	—	0.65	—	4,283	4,283	0.17	0.03	—	4,298
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.21	1.85	16.8	19.9	0.04	0.71	—	0.71	0.65	—	0.65	—	4,283	4,283	0.17	0.03	—	4,298
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.58	1.32	12.0	14.2	0.03	0.50	—	0.50	0.46	—	0.46	—	3,060	3,060	0.12	0.02	—	3,070
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.20	2.59	0.01	0.09	—	0.09	0.08	—	0.08	—	507	507	0.02	< 0.005	—	508
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.12	1.91	1.83	32.5	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,873	5,873	0.24	0.21	21.8	5,963
Vendor	0.22	0.06	2.43	1.32	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,191	2,191	0.17	0.33	6.17	2,300
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.00	1.79	2.02	24.5	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,385	5,385	0.25	0.21	0.56	5,453
Vendor	0.21	0.06	2.54	1.32	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,192	2,192	0.17	0.33	0.16	2,295
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.41	1.26	1.57	18.4	0.00	0.00	3.83	3.83	0.00	0.90	0.90	—	3,901	3,901	0.18	0.15	6.72	3,956
Vendor	0.15	0.04	1.83	0.93	0.01	0.02	0.43	0.45	0.02	0.12	0.14	—	1,565	1,565	0.12	0.24	1.91	1,641
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.23	0.29	3.37	0.00	0.00	0.70	0.70	0.00	0.16	0.16	—	646	646	0.03	0.02	1.11	655

Vendor	0.03	0.01	0.33	0.17	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	259	259	0.02	0.04	0.32	272
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.21	1.85	16.8	19.9	0.04	0.71	—	0.71	0.65	—	0.65	—	4,283	4,283	0.17	0.03	—	4,298
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.21	1.85	16.8	19.9	0.04	0.71	—	0.71	0.65	—	0.65	—	4,283	4,283	0.17	0.03	—	4,298
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.58	1.32	12.0	14.2	0.03	0.50	—	0.50	0.46	—	0.46	—	3,060	3,060	0.12	0.02	—	3,070
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.20	2.59	0.01	0.09	—	0.09	0.08	—	0.08	—	507	507	0.02	< 0.005	—	508
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.12	1.91	1.83	32.5	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,873	5,873	0.24	0.21	21.8	5,963
Vendor	0.22	0.06	2.43	1.32	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,191	2,191	0.17	0.33	6.17	2,300
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.00	1.79	2.02	24.5	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,385	5,385	0.25	0.21	0.56	5,453
Vendor	0.21	0.06	2.54	1.32	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,192	2,192	0.17	0.33	0.16	2,295
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.41	1.26	1.57	18.4	0.00	0.00	3.83	3.83	0.00	0.90	0.90	—	3,901	3,901	0.18	0.15	6.72	3,956
Vendor	0.15	0.04	1.83	0.93	0.01	0.02	0.43	0.45	0.02	0.12	0.14	—	1,565	1,565	0.12	0.24	1.91	1,641
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.23	0.29	3.37	0.00	0.00	0.70	0.70	0.00	0.16	0.16	—	646	646	0.03	0.02	1.11	655
Vendor	0.03	0.01	0.33	0.17	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	259	259	0.02	0.04	0.32	272
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

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

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

Off-Road Equipment	2.09	1.75	15.6	19.7	0.04	0.63	—	0.63	0.58	—	0.58	—	4,284	4,284	0.17	0.03	—	4,299
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09	1.75	15.6	19.7	0.04	0.63	—	0.63	0.58	—	0.58	—	4,284	4,284	0.17	0.03	—	4,299
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	1.08	9.64	12.2	0.03	0.39	—	0.39	0.36	—	0.36	—	2,641	2,641	0.11	0.02	—	2,650
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.76	2.22	< 0.005	0.07	—	0.07	0.07	—	0.07	—	437	437	0.02	< 0.005	—	439
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.00	1.80	1.64	30.0	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,753	5,753	0.24	0.20	19.7	5,838
Vendor	0.22	0.04	2.33	1.26	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,154	2,154	0.15	0.33	5.69	2,262
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.89	1.68	1.83	22.7	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,276	5,276	0.08	0.21	0.51	5,340

Vendor	0.21	0.04	2.42	1.28	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,155	2,155	0.15	0.33	0.15	2,258
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.16	1.04	1.23	14.7	0.00	0.00	3.31	3.31	0.00	0.77	0.77	—	3,298	3,298	0.05	0.13	5.24	3,343
Vendor	0.13	0.03	1.50	0.78	0.01	0.02	0.37	0.39	0.02	0.10	0.12	—	1,328	1,328	0.09	0.20	1.51	1,393
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.19	0.23	2.68	0.00	0.00	0.60	0.60	0.00	0.14	0.14	—	546	546	0.01	0.02	0.87	553
Vendor	0.02	< 0.005	0.27	0.14	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	220	220	0.02	0.03	0.25	231
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09	1.75	15.6	19.7	0.04	0.63	—	0.63	0.58	—	0.58	—	4,284	4,284	0.17	0.03	—	4,299
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09	1.75	15.6	19.7	0.04	0.63	—	0.63	0.58	—	0.58	—	4,284	4,284	0.17	0.03	—	4,299
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	1.08	9.64	12.2	0.03	0.39	—	0.39	0.36	—	0.36	—	2,641	2,641	0.11	0.02	—	2,650
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.76	2.22	< 0.005	0.07	—	0.07	0.07	—	0.07	—	437	437	0.02	< 0.005	—	439
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.00	1.80	1.64	30.0	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,753	5,753	0.24	0.20	19.7	5,838
Vendor	0.22	0.04	2.33	1.26	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,154	2,154	0.15	0.33	5.69	2,262
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.89	1.68	1.83	22.7	0.00	0.00	5.45	5.45	0.00	1.28	1.28	—	5,276	5,276	0.08	0.21	0.51	5,340
Vendor	0.21	0.04	2.42	1.28	0.02	0.03	0.61	0.64	0.03	0.17	0.20	—	2,155	2,155	0.15	0.33	0.15	2,258
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.16	1.04	1.23	14.7	0.00	0.00	3.31	3.31	0.00	0.77	0.77	—	3,298	3,298	0.05	0.13	5.24	3,343
Vendor	0.13	0.03	1.50	0.78	0.01	0.02	0.37	0.39	0.02	0.10	0.12	—	1,328	1,328	0.09	0.20	1.51	1,393
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.19	0.23	2.68	0.00	0.00	0.60	0.60	0.00	0.14	0.14	—	546	546	0.01	0.02	0.87	553

Vendor	0.02	< 0.005	0.27	0.14	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	220	220	0.02	0.03	0.25	231
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	1.05	8.77	12.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,603	2,603	0.11	0.02	—	2,612
Paving	—	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	1.05	8.77	12.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,603	2,603	0.11	0.02	—	2,612
Paving	—	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.79	1.08	< 0.005	0.03	—	0.03	0.03	—	0.03	—	235	235	0.01	< 0.005	—	236
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.14	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.0	39.0	< 0.005	< 0.005	—	39.1
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	1.26	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	242	242	0.01	0.01	0.83	245
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.02	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.03	20.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.36	3.36	< 0.005	< 0.005	0.01	3.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Paving (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	1.05	8.77	12.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,603	2,603	0.11	0.02	—	2,612
Paving	—	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	1.05	8.77	12.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,603	2,603	0.11	0.02	—	2,612
Paving	—	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.79	1.08	< 0.005	0.03	—	0.03	0.03	—	0.03	—	235	235	0.01	< 0.005	—	236
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.0	39.0	< 0.005	< 0.005	—	39.1
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	1.26	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	242	242	0.01	0.01	0.83	245
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.95	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.02	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.03	20.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.36	3.36	< 0.005	< 0.005	0.01	3.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

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

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

Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	52.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	52.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.15	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.1	24.1	< 0.005	< 0.005	—	24.2
Architectural Coatings	—	9.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.00	4.00	< 0.005	< 0.005	—	4.01
Architectural Coatings	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.36	0.33	6.00	0.00	0.00	1.09	1.09	0.00	0.26	0.26	—	1,151	1,151	0.05	0.04	3.94	1,168
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.34	0.37	4.53	0.00	0.00	1.09	1.09	0.00	0.26	0.26	—	1,055	1,055	0.02	0.04	0.10	1,068
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.86	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	193	193	< 0.005	0.01	0.31	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	32.0	32.0	< 0.005	< 0.005	0.05	32.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Architectural Coating (2026) - Mitigated

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

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

Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	52.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	52.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.15	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.1	24.1	< 0.005	< 0.005	—	24.2
Architectural Coatings	—	9.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.00	4.00	< 0.005	< 0.005	—	4.01
Architectural Coatings	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.36	0.33	6.00	0.00	0.00	1.09	1.09	0.00	0.26	0.26	—	1,151	1,151	0.05	0.04	3.94	1,168
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.34	0.37	4.53	0.00	0.00	1.09	1.09	0.00	0.26	0.26	—	1,055	1,055	0.02	0.04	0.10	1,068
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.86	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	193	193	< 0.005	0.01	0.31	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	32.0	32.0	< 0.005	< 0.005	0.05	32.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.76	0.68	0.70	6.84	0.02	0.01	1.52	1.53	0.01	0.39	0.40	—	1,782	1,782	0.08	0.08	6.10	1,813
Condo/Townhouse	2.33	2.09	2.15	20.9	0.05	0.04	4.63	4.67	0.03	1.18	1.21	—	5,437	5,437	0.23	0.24	18.6	5,532
Apartments Mid Rise	13.7	12.2	12.6	122	0.31	0.21	27.2	27.4	0.19	6.90	7.09	—	31,884	31,884	1.36	1.40	109	32,444
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	16.7	15.0	15.5	150	0.38	0.25	33.3	33.6	0.24	8.46	8.70	—	39,103	39,103	1.66	1.71	134	39,789
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.72	0.64	0.76	5.65	0.02	0.01	1.52	1.53	0.01	0.39	0.40	—	1,670	1,670	0.08	0.08	0.16	1,696
Condo/Townhouse	2.19	1.95	2.31	17.2	0.05	0.04	4.63	4.67	0.03	1.18	1.21	—	5,095	5,095	0.24	0.25	0.48	5,175
Apartments Mid Rise	12.8	11.4	13.5	101	0.29	0.21	27.2	27.4	0.19	6.90	7.09	—	29,883	29,883	1.40	1.44	2.83	30,351
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	15.7	14.0	16.6	124	0.36	0.25	33.3	33.6	0.24	8.46	8.70	—	36,649	36,649	1.72	1.77	3.47	37,222

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.13	0.12	0.14	1.07	< 0.005	< 0.005	0.28	0.28	< 0.005	0.07	0.07	—	279	279	0.01	0.01	0.44	284
Condo/Townhouse	0.40	0.35	0.43	3.27	0.01	0.01	0.85	0.85	0.01	0.21	0.22	—	852	852	0.04	0.04	1.33	867
Apartments Mid Rise	2.33	2.07	2.52	19.2	0.05	0.04	4.96	4.99	0.04	1.26	1.29	—	4,999	4,999	0.23	0.24	7.81	5,084
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.86	2.54	3.09	23.5	0.07	0.05	6.08	6.12	0.04	1.54	1.59	—	6,131	6,131	0.28	0.30	9.57	6,235

4.1.2. Mitigated

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

Land Use	TOG	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	0.76	0.68	0.70	6.84	0.02	0.01	1.52	1.53	0.01	0.39	0.40	—	1,782	1,782	0.08	0.08	6.10	1,813
Condo/Townhouse	2.33	2.09	2.15	20.9	0.05	0.04	4.63	4.67	0.03	1.18	1.21	—	5,437	5,437	0.23	0.24	18.6	5,532
Apartments Mid Rise	13.7	12.2	12.6	122	0.31	0.21	27.2	27.4	0.19	6.90	7.09	—	31,884	31,884	1.36	1.40	109	32,444

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	16.7	15.0	15.5	150	0.38	0.25	33.3	33.6	0.24	8.46	8.70	—	39,103	39,103	1.66	1.71	134	39,789
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.72	0.64	0.76	5.65	0.02	0.01	1.52	1.53	0.01	0.39	0.40	—	1,670	1,670	0.08	0.08	0.16	1,696
Condo/Townhouse	2.19	1.95	2.31	17.2	0.05	0.04	4.63	4.67	0.03	1.18	1.21	—	5,095	5,095	0.24	0.25	0.48	5,175
Apartments Mid Rise	12.8	11.4	13.5	101	0.29	0.21	27.2	27.4	0.19	6.90	7.09	—	29,883	29,883	1.40	1.44	2.83	30,351
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	15.7	14.0	16.6	124	0.36	0.25	33.3	33.6	0.24	8.46	8.70	—	36,649	36,649	1.72	1.77	3.47	37,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.13	0.12	0.14	1.07	< 0.005	< 0.005	0.28	0.28	< 0.005	0.07	0.07	—	279	279	0.01	0.01	0.44	284
Condo/Townhouse	0.40	0.35	0.43	3.27	0.01	0.01	0.85	0.85	0.01	0.21	0.22	—	852	852	0.04	0.04	1.33	867
Apartments Mid Rise	2.33	2.07	2.52	19.2	0.05	0.04	4.96	4.99	0.04	1.26	1.29	—	4,999	4,999	0.23	0.24	7.81	5,084

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.86	2.54	3.09	23.5	0.07	0.05	6.08	6.12	0.04	1.54	1.59	—	6,131	6,131	0.28	0.30	9.57	6,235

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	130	130	0.01	< 0.005	—	131
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	331	331	0.03	< 0.005	—	333
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,846	1,846	0.18	0.02	—	1,857
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	242	242	0.02	< 0.005	—	244
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	267	267	0.03	< 0.005	—	269
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,817	2,817	0.27	0.03	—	2,833
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	130	130	0.01	< 0.005	—	131
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	331	331	0.03	< 0.005	—	333
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,846	1,846	0.18	0.02	—	1,857
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	242	242	0.02	< 0.005	—	244
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	267	267	0.03	< 0.005	—	269
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,817	2,817	0.27	0.03	—	2,833
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	21.5	21.5	< 0.005	< 0.005	—	21.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	54.8	54.8	0.01	< 0.005	—	55.1
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	306	306	0.03	< 0.005	—	307
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	40.1	40.1	< 0.005	< 0.005	—	40.4
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	44.2	44.2	< 0.005	< 0.005	—	44.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	466	466	0.04	0.01	—	469

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	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	—	—	—	—	—	—	—	—	—	—	—	—	130	130	0.01	< 0.005	—	131
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	331	331	0.03	< 0.005	—	333
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,846	1,846	0.18	0.02	—	1,857
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	242	242	0.02	< 0.005	—	244
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	267	267	0.03	< 0.005	—	269
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,817	2,817	0.27	0.03	—	2,833
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	130	130	0.01	< 0.005	—	131
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	331	331	0.03	< 0.005	—	333
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,846	1,846	0.18	0.02	—	1,857
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	242	242	0.02	< 0.005	—	244

Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	267	267	0.03	< 0.005	—	269
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,817	2,817	0.27	0.03	—	2,833
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	21.5	21.5	< 0.005	< 0.005	—	21.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	54.8	54.8	0.01	< 0.005	—	55.1
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	306	306	0.03	< 0.005	—	307
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	40.1	40.1	< 0.005	< 0.005	—	40.4
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	44.2	44.2	< 0.005	< 0.005	—	44.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	466	466	0.04	0.01	—	469

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.02	0.01	0.14	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	181	181	0.02	< 0.005	—	181
Condo/Townhouse	0.04	0.02	0.34	0.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	435	435	0.04	< 0.005	—	436

Apartme Mid Rise	0.15	0.07	1.26	0.53	0.01	0.10	—	0.10	0.10	—	0.10	—	1,595	1,595	0.14	< 0.005	—	1,600
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	2,211	2,211	0.20	< 0.005	—	2,217
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.02	0.01	0.14	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	181	181	0.02	< 0.005	—	181
Condo/Townhouse	0.04	0.02	0.34	0.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	435	435	0.04	< 0.005	—	436
Apartments Mid Rise	0.15	0.07	1.26	0.53	0.01	0.10	—	0.10	0.10	—	0.10	—	1,595	1,595	0.14	< 0.005	—	1,600
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	2,211	2,211	0.20	< 0.005	—	2,217
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.9	29.9	< 0.005	< 0.005	—	30.0
Condo/Townhouse	0.01	< 0.005	0.06	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.0	72.0	0.01	< 0.005	—	72.2

Apartments Mid Rise	0.03	0.01	0.23	0.10	< 0.005	0.02	—	0.02	0.02	—	0.02	—	264	264	0.02	< 0.005	—	265
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.04	0.02	0.32	0.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	366	366	0.03	< 0.005	—	367

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	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	0.02	0.01	0.14	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	181	181	0.02	< 0.005	—	181
Condo/Townhouse	0.04	0.02	0.34	0.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	435	435	0.04	< 0.005	—	436
Apartments Mid Rise	0.15	0.07	1.26	0.53	0.01	0.10	—	0.10	0.10	—	0.10	—	1,595	1,595	0.14	< 0.005	—	1,600
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	2,211	2,211	0.20	< 0.005	—	2,217

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.02	0.01	0.14	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	181	181	0.02	< 0.005	—	181
Condo/Townhouse	0.04	0.02	0.34	0.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	435	435	0.04	< 0.005	—	436
Apartments Mid Rise	0.15	0.07	1.26	0.53	0.01	0.10	—	0.10	0.10	—	0.10	—	1,595	1,595	0.14	< 0.005	—	1,600
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.20	0.10	1.74	0.74	0.01	0.14	—	0.14	0.14	—	0.14	—	2,211	2,211	0.20	< 0.005	—	2,217
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.9	29.9	< 0.005	< 0.005	—	30.0
Condo/Townhouse	0.01	< 0.005	0.06	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.0	72.0	0.01	< 0.005	—	72.2
Apartments Mid Rise	0.03	0.01	0.23	0.10	< 0.005	0.02	—	0.02	0.02	—	0.02	—	264	264	0.02	< 0.005	—	265
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.04	0.02	0.32	0.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	366	366	0.03	< 0.005	—	367

4.3. Area Emissions by Source

4.3.2. 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	0.89	0.45	7.63	3.25	0.05	0.62	—	0.62	0.62	—	0.62	0.00	9,683	9,683	0.18	0.02	—	9,693
Consumer Products	—	11.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.49	3.29	0.33	34.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	96.4	96.4	< 0.005	< 0.005	—	96.8
Total	4.39	16.4	7.95	37.4	0.05	0.63	—	0.63	0.64	—	0.64	0.00	9,779	9,779	0.19	0.02	—	9,789
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.89	0.45	7.63	3.25	0.05	0.62	—	0.62	0.62	—	0.62	0.00	9,683	9,683	0.18	0.02	—	9,693
Consumer Products	—	11.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.89	13.1	7.63	3.25	0.05	0.62	—	0.62	0.62	—	0.62	0.00	9,683	9,683	0.18	0.02	—	9,693
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	0.01	0.10	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	110	110	< 0.005	< 0.005	—	110

Consum Products	—	2.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.41	0.04	4.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9	10.9	< 0.005	< 0.005	—	11.0
Total	0.45	2.72	0.14	4.31	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	121	121	< 0.005	< 0.005	—	121

4.3.1. Mitigated

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	0.89	0.45	7.63	3.25	0.05	0.62	—	0.62	0.62	—	0.62	0.00	9,683	9,683	0.18	0.02	—	9,693
Consumer Products	—	10.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.49	3.29	0.33	34.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	96.4	96.4	< 0.005	< 0.005	—	96.8
Total	4.39	15.5	7.95	37.4	0.05	0.63	—	0.63	0.64	—	0.64	0.00	9,779	9,779	0.19	0.02	—	9,789
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.89	0.45	7.63	3.25	0.05	0.62	—	0.62	0.62	—	0.62	0.00	9,683	9,683	0.18	0.02	—	9,693

Consumer	—	10.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.89	12.2	7.63	3.25	0.05	0.62	—	0.62	0.62	—	0.62	0.00	9,683	9,683	0.18	0.02	—	9,693
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	0.01	0.10	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	110	110	< 0.005	< 0.005	—	110
Consumer Products	—	1.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.41	0.04	4.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9	10.9	< 0.005	< 0.005	—	11.0
Total	0.45	2.56	0.14	4.31	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	121	121	< 0.005	< 0.005	—	121

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.44	25.7	27.1	0.15	< 0.005	—	32.0

Condo/Townhous	—	—	—	—	—	—	—	—	—	—	—	5.75	19.4	25.1	0.59	0.01	—	44.2
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	36.0	121	157	3.71	0.09	—	277
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.44	25.7	27.1	0.15	< 0.005	—	32.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	5.75	19.4	25.1	0.59	0.01	—	44.2
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	36.0	121	157	3.71	0.09	—	277
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.24	4.25	4.49	0.02	< 0.005	—	5.30

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.95	3.21	4.16	0.10	< 0.005	—	7.31
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	5.96	20.1	26.1	0.61	0.01	—	45.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.15	27.6	34.7	0.74	0.02	—	58.4

4.4.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.44	25.7	27.1	0.15	< 0.005	—	32.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	5.75	19.4	25.1	0.59	0.01	—	44.2
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	36.0	121	157	3.71	0.09	—	277
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.44	25.7	27.1	0.15	< 0.005	—	32.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	5.75	19.4	25.1	0.59	0.01	—	44.2
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	36.0	121	157	3.71	0.09	—	277
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	43.2	166	210	4.45	0.11	—	353
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.24	4.25	4.49	0.02	< 0.005	—	5.30
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.95	3.21	4.16	0.10	< 0.005	—	7.31
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	5.96	20.1	26.1	0.61	0.01	—	45.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.15	27.6	34.7	0.74	0.02	—	58.4

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.44	0.00	9.44	0.94	0.00	—	33.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	180	0.00	180	18.0	0.00	—	629
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	762
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.44	0.00	9.44	0.94	0.00	—	33.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100

Apartments	—	—	—	—	—	—	—	—	—	—	—	180	0.00	180	18.0	0.00	—	629
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.56	0.00	1.56	0.16	0.00	—	5.47
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	29.8	0.00	29.8	2.97	0.00	—	104
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	36.1	0.00	36.1	3.60	0.00	—	126

4.5.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.36	0.00	2.36	0.24	0.00	—	8.26
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	7.16	0.00	7.16	0.72	0.00	—	25.1
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.5	0.00	54.5	5.44	0.00	—	191
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.36	0.00	2.36	0.24	0.00	—	8.26
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	7.16	0.00	7.16	0.72	0.00	—	25.1
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.5	0.00	54.5	5.44	0.00	—	191
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.39	0.00	0.39	0.04	0.00	—	1.37
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1.19	0.00	1.19	0.12	0.00	—	4.15
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7.44	0.00	7.44	0.74	0.00	—	26.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.02	0.00	9.02	0.90	0.00	—	31.5

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55	0.55
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55	0.55
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.51	0.51
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65

4.6.2. Mitigated

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

Land Use	TOG	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55	0.55
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55	0.55
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.51	0.51
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Grading	Grading	4/1/2024	6/1/2024	5.00	45.0	—
Building Construction	Building Construction	6/2/2024	11/11/2026	5.00	638	—
Paving	Paving	9/26/2026	11/11/2026	5.00	33.0	—
Architectural Coating	Architectural Coating	8/12/2026	11/11/2026	5.00	66.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Grading	Cranes	Diesel	Average	1.00	8.00	148	0.41
Grading	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Graders	Diesel	Average	1.00	8.00	148	0.41
Building Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Building Construction	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Building Construction	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Construction	Surfacing Equipment	Diesel	Average	1.00	8.00	399	0.30
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

Building Construction	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Paving	Graders	Diesel	Average	1.00	8.00	148	0.41
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Paving	Surfacing Equipment	Diesel	Average	1.00	8.00	399	0.30
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Grading	Cranes	Diesel	Average	1.00	8.00	148	0.41
Grading	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Graders	Diesel	Average	1.00	8.00	148	0.41
Building Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Building Construction	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Building Construction	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Construction	Surfacing Equipment	Diesel	Average	1.00	8.00	399	0.30

Building Construction	Tractors/Loaders/Backh	Diesel	Average	1.00	8.00	84.0	0.37
Building Construction	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Paving	Graders	Diesel	Average	1.00	8.00	148	0.41
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Paving	Surfacing Equipment	Diesel	Average	1.00	8.00	399	0.30
Paving	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	17.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	417	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	71.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	17.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	83.4	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	17.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	417	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	71.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	17.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	83.4	18.5	LDA,LDT1,LDT2

Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	1,102,370	367,457	0.00	0.00	17,501

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	—	—	45.0	0.00	—
Paving	0.00	0.00	0.00	0.00	6.89

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	0.20	0%
Condo/Townhouse	—	0%

Apartments Mid Rise	—	0%
Parking Lot	6.70	100%
Enclosed Parking Structure	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	170	170	170	62,021	2,140	2,140	2,140	781,028
Condo/Townhouse	518	518	518	189,216	6,528	6,528	6,528	2,382,799
Apartments Mid Rise	3,040	3,040	3,040	1,109,670	38,285	38,285	38,285	13,974,081
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	170	170	170	62,021	2,140	2,140	2,140	781,028
Condo/Townhouse	518	518	518	189,216	6,528	6,528	6,528	2,382,799

Apartments Mid Rise	3,040	3,040	3,040	1,109,670	38,285	38,285	38,285	13,974,081
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	15
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2
Conventional Wood Stoves	0
Catalytic Wood Stoves	1
Non-Catalytic Wood Stoves	1
Pellet Wood Stoves	0
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	61
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	7
Conventional Wood Stoves	0

Catalytic Wood Stoves	4
Non-Catalytic Wood Stoves	4
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	383
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	45
Conventional Wood Stoves	0
Catalytic Wood Stoves	23
Non-Catalytic Wood Stoves	23
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	15
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2
Conventional Wood Stoves	0
Catalytic Wood Stoves	1
Non-Catalytic Wood Stoves	1
Pellet Wood Stoves	0
Condo/Townhouse	—

Wood Fireplaces	0
Gas Fireplaces	61
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	7
Conventional Wood Stoves	0
Catalytic Wood Stoves	4
Non-Catalytic Wood Stoves	4
Pellet Wood Stoves	0
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	383
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	45
Conventional Wood Stoves	0
Catalytic Wood Stoves	23
Non-Catalytic Wood Stoves	23
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1102369.5	367,457	0.00	0.00	17,501

5.10.3. Landscape Equipment

Season	Unit	Value

Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	136,973	346	0.0330	0.0040	563,215
Condo/Townhouse	349,097	346	0.0330	0.0040	1,356,645
Apartments Mid Rise	1,946,589	346	0.0330	0.0040	4,977,768
Parking Lot	255,510	346	0.0330	0.0040	0.00
Enclosed Parking Structure	281,515	346	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	136,973	346	0.0330	0.0040	563,215
Condo/Townhouse	349,097	346	0.0330	0.0040	1,356,645
Apartments Mid Rise	1,946,589	346	0.0330	0.0040	4,977,768
Parking Lot	255,510	346	0.0330	0.0040	0.00
Enclosed Parking Structure	281,515	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	750,261	4,138,152
Condo/Townhouse	3,001,045	0.00
Apartments Mid Rise	18,798,210	0.00
Parking Lot	0.00	0.00
Enclosed Parking Structure	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	750,261	4,138,152
Condo/Townhouse	3,001,045	0.00
Apartments Mid Rise	18,798,210	0.00
Parking Lot	0.00	0.00
Enclosed Parking Structure	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	17.5	—
Condo/Townhouse	53.2	—
Apartments Mid Rise	334	—
Parking Lot	0.00	—
Enclosed Parking Structure	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	4.38	—
Condo/Townhouse	13.3	—
Apartments Mid Rise	83.4	—
Parking Lot	0.00	—
Enclosed Parking Structure	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	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	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

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

5.18.1.2. Mitigated

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)

5.18.2.2. Mitigated

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	26.0	annual days of extreme heat
Extreme Precipitation	2.80	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	10.8	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
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	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
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	100
AQ-PM	57.3
AQ-DPM	91.4
Drinking Water	60.9
Lead Risk Housing	59.4
Pesticides	52.4
Toxic Releases	44.7
Traffic	32.1
Effect Indicators	—
CleanUp Sites	58.2
Groundwater	64.2
Haz Waste Facilities/Generators	94.8
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	43.2
Cardio-vascular	60.7
Low Birth Weights	85.0
Socioeconomic Factor Indicators	—

Education	41.9
Housing	77.8
Linguistic	25.6
Poverty	75.8
Unemployment	56.2

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	29.78313871
Employed	32.144232
Median HI	24.62466316
Education	—
Bachelor's or higher	53.66354421
High school enrollment	2.900038496
Preschool enrollment	7.134607982
Transportation	—
Auto Access	34.87745413
Active commuting	79.8665469
Social	—
2-parent households	5.902733222
Voting	29.23136148
Neighborhood	—
Alcohol availability	34.99294238
Park access	81.35506224
Retail density	96.22738355

Supermarket access	29.02604902
Tree canopy	52.70114205
Housing	—
Homeownership	7.262928269
Housing habitability	29.94995509
Low-inc homeowner severe housing cost burden	48.33825228
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	33.53009111
Health Outcomes	—
Insured adults	58.96317208
Arthritis	42.6
Asthma ER Admissions	54.6
High Blood Pressure	56.0
Cancer (excluding skin)	47.4
Asthma	19.7
Coronary Heart Disease	61.0
Chronic Obstructive Pulmonary Disease	29.1
Diagnosed Diabetes	65.9
Life Expectancy at Birth	30.5
Cognitively Disabled	28.0
Physically Disabled	55.6
Heart Attack ER Admissions	14.2
Mental Health Not Good	33.4
Chronic Kidney Disease	73.0
Obesity	41.1
Pedestrian Injuries	19.6
Physical Health Not Good	43.5

Stroke	51.7
Health Risk Behaviors	—
Binge Drinking	32.5
Current Smoker	29.7
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	16.3
Elderly	66.3
English Speaking	76.8
Foreign-born	31.9
Outdoor Workers	74.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	67.2
Traffic Density	26.2
Traffic Access	23.0
Other Indices	—
Hardship	56.1
Other Decision Support	—
2016 Voting	49.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	78.0
Healthy Places Index Score for Project Location (b)	17.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	As per construction questionnaire
Construction: Construction Phases	As per construction questionnaire
Construction: Off-Road Equipment	As per construction questionnaire
Operations: Vehicle Data	As per Neighborhoods at Lugonia Village - Traffic Impact Study Scope of Work (Site Plan Update), MBI, dated June 16, 2023
Operations: Hearths	As per SCAQMD Rule 443, no wood stoves are allowed

Redlands Lugonia Village Project
Energy Calculations

Operational Elelctritcy and Naural Gas Consumption

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
Apartment Mid Rise	4,977,768	49,778	1,946,589	1,947
Condo/Townhouse	1,356,645	13,566	349,097	349
Enclosed Parking Structure	0	0	281,515	282
Parking Lot	0	0	255,510	256
Single Family Housing	563,215	5,632	136,973	137
Totals	6,897,628	68,976	2,969,684	2,970

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	San Bernardino County Energy Consumption (2021)	Percentage Increase Countywide
Electricity (MWh)	2,970	16,180,811	0.0184%
Natural Gas (Therms)	68,976	561,360,617	0.0123%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Redlands Lugonia Village Project
Energy Calculations

WORKER TRIPS						
Phase	**Phase Length (# days)**	**# Worker Trips**	**Worker Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)**	**Total Fuel Consumption**
Grading	44	17.5	18.5	14,245		572.02
Building Construction	638	417	18.5	4,921,851	**24.90284233**	197,642.14
Architectural Coating	66	83.4	18.5	101,831		4,089.15
Paving	33	17.5	18.5	10,684		429.02
						202,732.33

VENDOR TRIPS						
Phase	**Phase Length (# days)**	**# Vendor Trips**	**Vendor Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)**	**Total Fuel Consumption**
Grading	44	0	10.2	-		-
Building Construction	638	71	10.2	724	**8.343886151**	86.79
Architectural Coating	66	0	10.2	-		-
Paving	33	0	10.2	-		-
						86.79

HAULING TRIPS						
Phase	**Phase Length (# days)**	**# Hauling Trips**	**Hauling Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)[1]**	**Total Fuel Consumption**
Grading	44	0	20	-		-
Building Construction	638	0	20	-		-
Architectural Coating	66	0	20	-	**8.343886151**	-
Paving	33	0	20	-		-
						0.00

TOTAL OFF-SITE MOBILE FUEL (GALLONS) CONSUMED DURING CONSTRUCTION	**202,819.12**

On-road Automotive Fuel Consumption

Redlands Lugonia Village Project
Energy Calculations

On-Site Construction Fuel Consumption

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Grading	Concrete/Industrial Saws	1	8	37	0.73	1.0804	8	44	380.30
Grading	Cranes	1	8	33	0.29	0.3828	8	44	134.75
Grading	Crawler Tractors	1	8	367	0.43	6.3124	8	44	2,221.96
Grading	Excavators	1	8	87	0.38	1.3224	8	44	465.48
Grading	Graders	1	8	36	0.41	0.5904	8	44	207.82
Grading	Off-Highway Tractors	1	8	148	0.44	2.6048	8	44	916.89
Grading	Off-Highway Trucks	1	8	38	0.38	0.5776	8	44	203.32
Grading	Pavers	1	8	376	0.42	6.3168	8	44	2,223.51
Grading	Paving Equipment	1	8	81	0.36	1.1664	8	44	410.57
Grading	Rollers	2	8	36	0.38	0.5472	16	44	385.23
Grading	Rubber Tired Dozers	1	8	367	0.40	5.872	8	44	2,066.94
Grading	Rubber Tired Loaders	1	8	150	0.36	2.16	8	44	760.32
Grading	Scrapers	1	8	423	0.48	8.1216	8	44	2,858.80
Grading	Signal Boards	1	8	6	0.82	0.1968	8	44	69.27
Grading	Skid Steer Loaders	1	8	71	0.37	1.0508	8	44	369.88
Grading	Surfacing Equipment	1	8	399	0.30	4.788	8	44	1,685.38
Grading	Tractors/Loaders/Backhoes	1	8	84	0.37	1.2432	8	44	437.61
Building Construction	Concrete/Industrial Saws	1	8	33	0.73	0.9636	8	638	4,918.21
Building Construction	Cranes	1	8	367	0.29	4.2572	8	638	21,728.75
Building Construction	Excavators	1	8	36	0.38	0.5472	8	638	2,792.91
Building Construction	Graders	1	8	148	0.41	2.4272	8	638	12,388.43
Building Construction	Other Construction Equipment	1	8	82	0.42	1.3776	8	638	7,031.27
Building Construction	Rough Terrain Forklifts	1	8	96	0.40	1.536	8	638	7,839.74
Building Construction	Signal Boards	1	8	6	0.82	0.1968	8	638	1,004.47
Building Construction	Surfacing Equipment	1	8	399	0.30	4.788	8	638	24,437.95
Building Construction	Tractors/Loaders/Backhoes	1	8	84	0.37	1.2432	8	638	6,345.29
Building Construction	Trenchers	1	8	40	0.5	0.8	8	638	4,083.20
Paving	Graders	1	8	148	0.41	2.4272	8	33	640.78
Paving	Paving Equipment	1	8	89	0.36	1.2816	8	33	338.34
Paving	Rollers	2	8	36	0.38	0.5472	16	33	288.92
Paving	Signal Boards	1	8	6	0.82	0.1968	8	33	51.96
Paving	Surfacing Equipment	1	8	399	0.30	4.788	8	33	1,264.03
Paving	Tractors/Loaders/Backhoes	1	8	84	0.37	1.2432	8	33	328.20
Architectural Coating	Air Compressors	1	6	37	0.48	0.7104	6	66	281.32
							TOTAL ON-SITE FUEL (GALLONS) CONSUMED DURING CONSTRUCTION		**111,561.82**

Notes:

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Redlands Lugonia Village Project
Energy Calculations

Vehicle Type	Percent of Vehicle Trips[1]	Daily Trips[2]	Annual Vehicle Miles Traveled	Average Fuel Economy (miles per gallon)[3]	Total Annual Fuel Consumption (gallons)[4]
Passenger Cars	0.54	1,950	9,307,341	22	423,061
Light/Medium Trucks	0.36	1,306	6,232,080	17.3	360,236
Heavy Trucks/Other	0.09	335	1,598,487	6.4	249,764
TOTAL [6]	***1.00***	**3,591**	***17,137,908***	**--**	***1,033,060***

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips Distribution based on ITE manual.
3. Average fuel economy derived from the Department of Transportation.
4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
5. Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

County On-Road (Gallons) 1,113,988,859.00