

Appendix D – Air Quality

Clearlake Airport Redevelopment Project v2 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Clearlake Airport Redevelopment Project v2
Construction Start Date	5/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	9.20
Location	38.93415434527887, -122.62332677067869
County	Lake
City	Clearlake
Air District	Lake County AQMD
Air Basin	Lake County
TAZ	240
EDFZ	2
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.30

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
Regional Shopping Center	148	1000sqft	3.41	148,400	0.00	—	—	Central shopping area in PD Zone 2

Hospital	23.3	1000sqft	0.54	70,000	0.00	—	—	Hospital in PD Zone 2
Medical Office Building	22.5	1000sqft	0.52	67,500	0.00	—	—	Medical office bldg in PD Zone 2
Bridge/Overpass Construction	0.19	Mile	0.46	0.00	—	—	—	Pedestrian overpass bridge
Parking Lot	2,144	1000sqft	49.2	0.00	686,824	197,762	—	All surface parking lots, landscaping, drainage basins, and xeriscaped areas
Unenclosed Parking with Elevator	25.6	1000sqft	0.59	37,289	0.00	—	—	Structured parking in mixed use bldg in PD Zone 1
Apartments Mid Rise	236	Dwelling Unit	1.56	218,440	0.00	—	557	Multi-family in all PD Zones
Condo/Townhouse	14.0	Dwelling Unit	0.39	34,000	0.00	—	33.0	Multi-family housing in PD Zone 1
High Turnover (Sit Down Restaurant)	20.0	1000sqft	0.46	20,000	0.00	—	—	Restaurant in PD Zone 2
Fast Food Restaurant w/o Drive Thru	2.00	1000sqft	0.05	2,000	0.00	—	—	Fast food w/o DT in PD Zone 1
Fast Food Restaurant with Drive Thru	10.4	1000sqft	0.24	10,400	0.00	—	—	Fast food w/DT - total all zones
Hotel	75.0	Room	0.53	48,402	0.00	—	—	Hotel and conference bldg in PD Zone 1
Road Construction	1.10	Mile	0.77	0.00	0.00	—	—	Roads throughout
Arena	6.00	1000sqft	0.25	6,000	3,158	—	—	Flex/event center in PD Zone 2
Convenience Market with Gas Pumps	5.60	1000sqft	0.13	5,600	0.00	—	—	Fueling station and market in PD Zone 3
Free-Standing Discount store	40.6	1000sqft	0.93	40,600	0.00	—	—	General retail in PD Zone 3

Strip Mall	4.00	1000sqft	0.00	4,000	0.00	—	—	General retail in mixed use dev in PD Zone 1
Strip Mall	14.6	1000sqft	0.00	14,580	0.00	—	—	General retail in mixed use dev in PD Zone 2

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Transportation	T-18	Provide Pedestrian Network Improvement
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Traffic Calming Measures
Transportation	T-43*	Provide Real-Time Transit Information
Transportation	T-50*	Required Project Contributions to Transportation Infrastructure Improvement
Energy	E-3-A*	Require Energy Efficient Residential Boilers
Energy	E-3-B*	Require Energy Efficient Commercial Packaged Boilers
Energy	E-13	Install Electric Ranges in Place of Gas Ranges
Energy	E-15	Require All-Electric Development
Water	W-5	Design Water-Efficient Landscapes
Natural Lands	N-7*	Wildfire Resilience and Management
Area Sources	AS-2	Use Low-VOC Paints
Area Sources	E-14	Limit Wood Burning Devices and Natural Gas/Propane Fireplaces in Residential Development

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	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.	22.2	22.0	30.7	222	0.36	0.71	2,241	2,241	0.71	238	238	—	39,555	39,555	1.57	0.87	20.7	39,777
Mit.	22.2	22.0	30.7	222	0.36	0.71	2,241	2,241	0.71	238	238	—	39,555	39,555	1.57	0.87	20.7	39,777
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.2	22.0	45.2	313	0.56	1.09	2,241	2,241	1.09	238	238	—	60,106	60,106	2.27	1.32	0.54	60,557
Mit.	22.2	22.0	45.2	313	0.56	1.09	2,241	2,241	1.09	238	238	—	60,106	60,106	2.27	1.32	0.54	60,557
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.0	14.8	13.5	91.7	0.15	0.29	1,417	1,417	0.29	142	142	—	18,124	18,124	0.70	0.55	5.49	18,312
Mit.	15.0	14.8	13.5	91.7	0.15	0.29	1,417	1,417	0.29	142	142	—	18,124	18,124	0.70	0.55	5.49	18,312
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.73	2.70	2.46	16.7	0.03	0.05	259	259	0.05	25.9	25.9	—	3,001	3,001	0.12	0.09	0.91	3,032
Mit.	2.73	2.70	2.46	16.7	0.03	0.05	259	259	0.05	25.9	25.9	—	3,001	3,001	0.12	0.09	0.91	3,032
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	54.0	54.0	—	—	82.0	—	—	54.0	—	—	—	—	—	—	—	—	—

Unmit.	—	No	—	—	No	Yes	Yes	No	Yes	Yes	—	—	—	—	—
Mit.	—	No	—	—	No	Yes	Yes	No	Yes	Yes	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	54.0	—	—	82.0	—	—	54.0	—	—	—	—	—	—	—
Unmit.	—	No	—	—	No	Yes	Yes	No	Yes	Yes	—	—	—	—	—
Mit.	—	No	—	—	No	Yes	Yes	No	Yes	Yes	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.91	4.81	30.7	222	0.36	0.71	932	933	0.71	107	108	—	39,555	39,555	1.57	0.59	8.38	39,777
2027	22.2	22.0	24.4	190	0.30	0.59	2,241	2,241	0.59	238	238	—	36,214	36,214	1.41	0.87	20.7	36,528
2028	21.1	20.8	10.4	60.7	0.07	0.14	2,029	2,029	0.14	203	203	—	11,373	11,373	0.42	0.55	17.4	11,563
2029	20.8	20.7	10.00	58.6	0.07	0.14	2,029	2,029	0.14	203	203	—	11,249	11,249	0.41	0.55	15.9	11,438
2030	20.7	20.5	9.68	56.8	0.07	0.14	2,029	2,029	0.14	203	203	—	11,122	11,122	0.41	0.53	14.5	11,304
2031	20.4	20.3	9.40	55.0	0.07	0.14	2,029	2,029	0.12	203	203	—	10,995	10,995	0.40	0.53	13.2	11,176
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.91	6.77	45.2	313	0.56	1.09	1,534	1,535	1.09	167	168	—	60,106	60,106	2.27	1.32	0.43	60,557
2027	22.2	22.0	23.5	167	0.29	0.60	2,241	2,241	0.60	238	238	—	32,998	32,998	1.28	0.95	0.54	33,277
2028	21.1	20.8	10.5	58.8	0.07	0.14	2,029	2,029	0.14	203	203	—	11,285	11,285	0.42	0.55	0.45	11,460
2029	20.8	20.7	10.1	57.0	0.07	0.14	2,029	2,029	0.14	203	203	—	11,164	11,164	0.42	0.55	0.41	11,338
2030	20.7	20.6	9.72	55.2	0.07	0.14	2,029	2,029	0.14	203	203	—	11,039	11,039	0.41	0.53	0.38	11,207
2031	20.5	20.3	9.46	53.6	0.07	0.14	2,029	2,029	0.12	203	203	—	10,914	10,914	0.40	0.53	0.34	11,082

2032	17.8	17.8	0.90	3.50	< 0.005	< 0.005	284	284	28.4	28.4	—	669	669	0.02	0.03	0.04	678
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.57	1.53	10.2	71.4	0.13	0.24	356	357	41.3	41.6	—	13,535	13,535	0.52	0.29	1.61	13,636
2027	6.53	6.41	13.5	91.7	0.15	0.29	1,312	1,312	139	140	—	18,124	18,124	0.70	0.55	5.49	18,312
2028	15.0	14.8	7.75	41.4	0.05	0.10	1,417	1,417	142	142	—	8,003	8,003	0.31	0.39	5.37	8,133
2029	14.8	14.6	7.41	40.1	0.05	0.10	1,413	1,413	141	141	—	7,896	7,896	0.30	0.39	4.91	8,025
2030	14.7	14.6	7.17	38.9	0.05	0.10	1,413	1,413	141	141	—	7,808	7,808	0.30	0.38	4.49	7,933
2031	13.6	13.6	3.86	22.3	0.03	0.05	755	755	75.5	75.6	—	4,292	4,292	0.17	0.19	2.12	4,354
2032	0.24	0.24	0.01	0.05	< 0.005	< 0.005	3.79	3.79	0.38	0.38	—	8.95	8.95	< 0.005	< 0.005	0.01	9.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.29	0.28	1.87	13.0	0.02	0.04	65.0	65.1	7.54	7.58	—	2,241	2,241	0.09	0.05	0.27	2,258
2027	1.19	1.17	2.46	16.7	0.03	0.05	239	239	25.4	25.5	—	3,001	3,001	0.12	0.09	0.91	3,032
2028	2.73	2.70	1.41	7.56	0.01	0.02	259	259	25.9	25.9	—	1,325	1,325	0.05	0.06	0.89	1,347
2029	2.69	2.67	1.35	7.31	0.01	0.02	258	258	25.8	25.8	—	1,307	1,307	0.05	0.06	0.81	1,329
2030	2.68	2.66	1.31	7.10	0.01	0.02	258	258	25.8	25.8	—	1,293	1,293	0.05	0.06	0.74	1,313
2031	2.49	2.48	0.70	4.08	0.01	0.01	138	138	13.8	13.8	—	711	711	0.03	0.03	0.35	721
2032	0.04	0.04	< 0.005	0.01	< 0.005	< 0.005	0.69	0.69	0.07	0.07	—	1.48	1.48	< 0.005	< 0.005	< 0.005	1.50

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.91	4.81	30.7	222	0.36	0.71	932	933	0.71	107	108	—	39,555	39,555	1.57	0.59	8.38	39,777
2027	22.2	22.0	24.4	190	0.30	0.59	2,241	2,241	0.59	238	238	—	36,214	36,214	1.41	0.87	20.7	36,528
2028	21.1	20.8	10.4	60.7	0.07	0.14	2,029	2,029	0.14	203	203	—	11,373	11,373	0.42	0.55	17.4	11,563
2029	20.8	20.7	10.00	58.6	0.07	0.14	2,029	2,029	0.14	203	203	—	11,249	11,249	0.41	0.55	15.9	11,438

2030	20.7	20.5	9.68	56.8	0.07	0.14	2,029	2,029	2,029	0.14	203	203	—	11,122	11,122	0.41	0.53	14.5	11,304
2031	20.4	20.3	9.40	55.0	0.07	0.14	2,029	2,029	2,029	0.12	203	203	—	10,995	10,995	0.40	0.53	13.2	11,176
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.91	6.77	45.2	313	0.56	1.09	1,534	1,535	1,535	1.09	167	168	—	60,106	60,106	2.27	1.32	0.43	60,557
2027	22.2	22.0	23.5	167	0.29	0.60	2,241	2,241	2,241	0.60	238	238	—	32,998	32,998	1.28	0.95	0.54	33,277
2028	21.1	20.8	10.5	58.8	0.07	0.14	2,029	2,029	2,029	0.14	203	203	—	11,285	11,285	0.42	0.55	0.45	11,460
2029	20.8	20.7	10.1	57.0	0.07	0.14	2,029	2,029	2,029	0.14	203	203	—	11,164	11,164	0.42	0.55	0.41	11,338
2030	20.7	20.6	9.72	55.2	0.07	0.14	2,029	2,029	2,029	0.14	203	203	—	11,039	11,039	0.41	0.53	0.38	11,207
2031	20.5	20.3	9.46	53.6	0.07	0.14	2,029	2,029	2,029	0.12	203	203	—	10,914	10,914	0.40	0.53	0.34	11,082
2032	17.8	17.8	0.90	3.50	< 0.005	< 0.005	284	284	284	< 0.005	28.4	28.4	—	669	669	0.02	0.03	0.04	678
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.57	1.53	10.2	71.4	0.13	0.24	356	357	357	0.24	41.3	41.6	—	13,535	13,535	0.52	0.29	1.61	13,636
2027	6.53	6.41	13.5	91.7	0.15	0.29	1,312	1,312	1,312	0.29	139	140	—	18,124	18,124	0.70	0.55	5.49	18,312
2028	15.0	14.8	7.75	41.4	0.05	0.10	1,417	1,417	1,417	0.10	142	142	—	8,003	8,003	0.31	0.39	5.37	8,133
2029	14.8	14.6	7.41	40.1	0.05	0.10	1,413	1,413	1,413	0.10	141	141	—	7,896	7,896	0.30	0.39	4.91	8,025
2030	14.7	14.6	7.17	38.9	0.05	0.10	1,413	1,413	1,413	0.10	141	141	—	7,808	7,808	0.30	0.38	4.49	7,933
2031	13.6	13.6	3.86	22.3	0.03	0.05	755	755	755	0.05	75.5	75.6	—	4,292	4,292	0.17	0.19	2.12	4,354
2032	0.24	0.24	0.01	0.05	< 0.005	< 0.005	3.79	3.79	3.79	< 0.005	0.38	0.38	—	8.95	8.95	< 0.005	< 0.005	0.01	9.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.29	0.28	1.87	13.0	0.02	0.04	65.0	65.1	65.1	0.04	7.54	7.58	—	2,241	2,241	0.09	0.05	0.27	2,258
2027	1.19	1.17	2.46	16.7	0.03	0.05	239	239	239	0.05	25.4	25.5	—	3,001	3,001	0.12	0.09	0.91	3,032
2028	2.73	2.70	1.41	7.56	0.01	0.02	259	259	259	0.02	25.9	25.9	—	1,325	1,325	0.05	0.06	0.89	1,347
2029	2.69	2.67	1.35	7.31	0.01	0.02	258	258	258	0.02	25.8	25.8	—	1,307	1,307	0.05	0.06	0.81	1,329
2030	2.68	2.66	1.31	7.10	0.01	0.02	258	258	258	0.02	25.8	25.8	—	1,293	1,293	0.05	0.06	0.74	1,313
2031	2.49	2.48	0.70	4.08	0.01	0.01	138	138	138	0.01	13.8	13.8	—	711	711	0.03	0.03	0.35	721
2032	0.04	0.04	< 0.005	0.01	< 0.005	< 0.005	0.69	0.69	0.69	< 0.005	0.07	0.07	—	1.48	1.48	< 0.005	< 0.005	< 0.005	1.50

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.	201	191	84.2	744	3.80	14.1	76.6	90.7	4.61	19.5	24.1	875	422,892	423,766	99.4	7.02	1,621	429,965
Mit.	186	176	78.3	702	3.74	14.0	71.7	85.7	4.48	18.2	22.7	875	415,639	416,514	98.8	6.65	1,600	422,567
% Reduced	7%	8%	7%	6%	2%	1%	6%	6%	3%	6%	6%	—	2%	2%	1%	5%	1%	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	200	190	84.5	683	3.78	14.1	76.6	90.7	4.58	19.5	24.1	875	421,041	421,916	99.6	7.04	1,301	427,805
Mit.	185	176	78.7	643	3.72	14.0	71.7	85.6	4.45	18.2	22.7	875	413,900	414,774	99.0	6.67	1,300	420,537
% Reduced	8%	8%	7%	6%	2%	1%	6%	6%	3%	6%	6%	—	2%	2%	1%	5%	< 0.5%	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	156	148	65.0	542	3.44	13.7	48.2	62.0	4.22	12.3	16.5	875	386,098	386,973	98.3	5.61	1,382	392,484
Mit.	144	136	60.4	512	3.40	13.6	45.2	58.8	4.12	11.5	15.6	875	381,313	382,187	97.8	5.33	1,376	387,598
% Reduced	8%	8%	7%	5%	1%	1%	6%	5%	3%	6%	5%	—	1%	1%	1%	5%	< 0.5%	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.5	26.9	11.9	98.9	0.63	2.50	8.80	11.3	0.77	2.24	3.01	145	63,923	64,068	16.3	0.93	229	64,980
Mit.	26.2	24.8	11.0	93.5	0.62	2.48	8.24	10.7	0.75	2.10	2.85	145	63,131	63,275	16.2	0.88	228	64,171
% Reduced	8%	8%	7%	5%	1%	1%	6%	5%	3%	6%	5%	—	1%	1%	1%	5%	< 0.5%	1%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Threshold	—	54.0	54.0	—	82.0	—	—	54.0	—	—	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	—	No	Yes	Yes	No	Yes	Yes	—	—	—	—	—	—	—
Mit.	—	Yes	Yes	—	No	Yes	Yes	No	Yes	Yes	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	54.0	54.0	—	82.0	—	—	54.0	—	—	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	—	No	Yes	Yes	No	Yes	Yes	Yes	—	—	—	—	—	—
Mit.	—	Yes	Yes	—	No	Yes	Yes	No	Yes	Yes	Yes	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	10.0	10.0	—	15.0	—	—	10.0	—	—	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	—	No	Yes	Yes	No	Yes	Yes	Yes	—	—	—	—	—	—
Mit.	—	Yes	Yes	—	No	Yes	Yes	No	Yes	Yes	Yes	—	—	—	—	—	—

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	168	161	79.3	642	0.94	1.14	76.6	77.7	1.07	19.5	20.6	—	95,631	95,631	7.59	5.67	329	97,840
Area	25.3	24.9	0.31	34.9	<0.005	0.04	—	0.04	0.03	—	0.03	0.00	291	291	0.03	< 0.005	—	293
Energy	0.51	0.26	4.61	3.55	0.03	0.35	—	0.35	0.35	—	0.35	—	11,587	11,587	1.47	0.13	—	11,662
Water	—	—	—	—	—	—	—	—	—	—	—	83.0	83.8	167	8.52	0.20	—	440
Waste	—	—	—	—	—	—	—	—	—	—	—	792	0.00	792	79.1	0.00	—	2,769
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,292	1,292
Stationary	7.01	4.28	0.00	63.0	2.84	12.6	0.00	12.6	3.15	0.00	3.15	0.00	315,005	315,005	2.72	1.01	0.00	315,375

Area	4.15	4.12	0.03	3.14	< 0.005	< 0.005	—	< 0.005	—	< 0.005	0.00	16.3	16.3	< 0.005	< 0.005	—	16.4
Energy	0.09	0.05	0.84	0.65	0.01	0.06	—	0.06	—	0.06	—	1,918	1,918	0.24	0.02	—	1,931
Water	—	—	—	—	—	—	—	—	—	—	13.7	13.9	27.6	1.41	0.03	—	72.9
Waste	—	—	—	—	—	—	—	—	—	—	131	0.00	131	13.1	0.00	—	458
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	214	214
Stationary	1.28	0.78	0.00	11.5	0.52	2.30	0.00	2.30	0.00	0.57	0.00	52,136	52,136	0.45	0.17	0.00	52,197
Vegetation	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	48.5	48.5	—	—	—	48.5
Total	28.5	26.9	11.9	98.9	0.63	2.50	8.80	11.3	0.77	2.24	3.01	63,923	64,068	16.3	0.93	229	64,980

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	157	151	74.2	601	0.88	1.06	71.7	72.7	1.00	18.2	19.2	—	89,511	89,511	7.11	5.31	308	91,578
Area	21.2	20.8	0.31	34.9	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	123	123	0.01	< 0.005	—	123
Energy	0.42	0.21	3.85	3.23	0.02	0.29	—	0.29	0.29	—	0.29	—	10,623	10,623	1.38	0.13	—	10,696
Water	—	—	—	—	—	—	—	—	—	—	—	83.0	83.8	167	8.52	0.20	—	440
Waste	—	—	—	—	—	—	—	—	—	—	—	792	0.00	792	79.1	0.00	—	2,769
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,292	1,292
Stationary	7.01	4.28	0.00	63.0	2.84	12.6	0.00	12.6	3.15	0.00	3.15	0.00	315,005	315,005	2.72	1.01	0.00	315,375
Vegetation	—	> -0.005	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	293	293	—	—	—	293
Total	186	176	78.3	702	3.74	14.0	71.7	85.7	4.48	18.2	22.7	875	415,639	416,514	98.8	6.65	1,600	422,567
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	162	155	74.8	577	0.86	1.06	71.7	72.7	1.00	18.2	19.2	—	87,894	87,894	7.22	5.33	7.98	89,672
Area	16.2	16.2	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.42	0.21	3.85	3.23	0.02	0.29	—	0.29	0.29	—	0.29	—	10,623	10,623	1.38	0.13	—	10,696
Water	—	—	—	—	—	—	—	—	—	—	—	83.0	83.8	167	8.52	0.20	—	440
Waste	—	—	—	—	—	—	—	—	—	—	—	792	0.00	792	79.1	0.00	—	2,769
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,292	1,292
Stationary	7.01	4.28	0.00	63.0	2.84	12.6	0.00	12.6	3.15	0.00	3.15	0.00	315,005	315,005	2.72	1.01	0.00	315,375
Vegetation	—	> -0.005	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	293	293	—	—	—	293
Total	185	176	78.7	643	3.72	14.0	71.7	85.6	4.45	18.2	22.7	875	413,900	414,774	99.0	6.67	1,300	420,537
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	118	113	56.4	429	0.54	0.70	45.2	45.9	0.66	11.5	12.1	—	55,349	55,349	6.09	3.99	84.2	56,775
Area	18.6	18.5	0.15	17.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	60.6	60.6	< 0.005	< 0.005	—	60.8
Energy	0.42	0.21	3.85	3.23	0.02	0.29	—	0.29	0.29	—	0.29	—	10,623	10,623	1.38	0.13	—	10,696
Water	—	—	—	—	—	—	—	—	—	—	—	83.0	83.8	167	8.52	0.20	—	440
Waste	—	—	—	—	—	—	—	—	—	—	—	792	0.00	792	79.1	0.00	—	2,769
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,292	1,292
Stationary	7.00	4.28	0.00	63.0	2.83	12.6	0.00	12.6	3.15	0.00	3.15	0.00	314,903	314,903	2.72	1.01	0.00	315,272
Vegetation	—	> -0.005	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	293	293	—	—	—	293
Total	144	136	60.4	512	3.40	13.6	45.2	58.8	4.12	11.5	15.6	875	381,313	382,187	97.8	5.33	1,376	387,598
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.5	20.6	10.3	78.3	0.10	0.13	8.24	8.37	0.12	2.10	2.22	—	9,164	9,164	1.01	0.66	13.9	9,400
Area	3.40	3.37	0.03	3.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	10.0	10.0	< 0.005	< 0.005	—	10.1
Energy	0.08	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,759	1,759	0.23	0.02	—	1,771
Water	—	—	—	—	—	—	—	—	—	—	—	13.7	13.9	27.6	1.41	0.03	—	72.9
Waste	—	—	—	—	—	—	—	—	—	—	—	131	0.00	131	13.1	0.00	—	458

[illegible]

3. Construction Emissions Details

3.1. Demolition (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	0.51	0.51	2.63	31.7	0.05	0.10	—	0.10	0.10	—	0.10	—	5,371	5,371	0.22	0.04	—	5,389
Demolition	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.2	54.2	< 0.005	0.01	0.09	56.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	2.63	31.7	0.05	0.10	—	0.10	0.10	—	0.10	—	5,371	5,371	0.22	0.04	—	5,389
Demolition	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	2.16	—	54.3	54.3	< 0.005	0.01	< 0.005	56.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.94	11.4	0.02	0.04	—	0.04	0.04	—	1,928	1,928	0.08	0.02	—	1,934
Demolition	—	—	—	—	—	—	0.03	0.03	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	7.57	7.57	0.76	—	19.5	19.5	< 0.005	< 0.005	0.01	20.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	2.08	< 0.005	0.01	—	0.01	0.01	—	319	319	0.01	< 0.005	—	320
Demolition	—	—	—	—	—	—	0.01	0.01	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.38	1.38	0.14	—	3.22	3.22	< 0.005	< 0.005	< 0.005	3.38
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.13	1.80	0.00	0.00	105	105	10.5	—	223	223	0.01	0.01	0.89	226
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	0.55	—	47.5	47.5	< 0.005	0.01	0.11	49.6
Hauling	< 0.005	< 0.005	0.11	0.01	< 0.005	< 0.005	7.46	7.46	0.75	—	70.9	70.9	< 0.005	0.01	0.13	74.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.19	0.13	1.65	0.00	0.00	105	105	10.5	—	217	217	0.01	0.01	0.02	220
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	0.55	—	47.5	47.5	< 0.005	0.01	< 0.005	49.5
Hauling	< 0.005	< 0.005	0.11	0.01	< 0.005	< 0.005	7.46	7.46	0.75	—	70.9	70.9	< 0.005	0.01	< 0.005	74.3

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.57	0.00	0.00	36.7	36.7	0.00	3.67	3.67	—	—	75.2	75.2	0.01	< 0.005	0.14	76.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	1.93	1.93	< 0.005	0.19	0.19	—	—	17.0	17.0	< 0.005	< 0.005	0.02	17.8
Hauling	< 0.005	< 0.005	0.04	< 0.005	< 0.005	< 0.005	2.61	2.61	< 0.005	0.26	0.26	—	—	25.5	25.5	< 0.005	< 0.005	0.02	26.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	6.69	6.69	0.00	0.67	0.67	—	—	12.5	12.5	< 0.005	< 0.005	0.02	12.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.35	0.35	< 0.005	0.04	0.04	—	—	2.82	2.82	< 0.005	< 0.005	< 0.005	2.94
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.48	0.48	< 0.005	0.05	0.05	—	—	4.21	4.21	< 0.005	< 0.005	< 0.005	4.41

3.2. Demolition (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	0.51	0.51	2.63	31.7	0.05	0.10	—	0.10	0.10	—	0.10	—	5,371	5,371	0.22	0.04	—	5,389
Demolition	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.2	54.2	< 0.005	0.01	0.09	56.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	2.63	31.7	0.05	0.10	—	0.10	0.10	—	0.10	—	5,371	5,371	0.22	0.04	—	5,389

Demolition	—	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	< 0.005	2.16	2.16	—	54.3	< 0.005	0.01	< 0.005
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.94	11.4	0.02	0.04	—	0.04	0.04	0.04	—	0.04	—	1,928	0.08	0.02	—
Demolition	—	—	—	—	—	—	0.03	0.03	—	—	< 0.005	< 0.005	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	7.57	7.57	< 0.005	< 0.005	0.76	0.76	—	19.5	< 0.005	< 0.005	0.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	2.08	< 0.005	0.01	—	—	0.01	0.01	—	0.01	—	319	0.01	< 0.005	—
Demolition	—	—	—	—	—	—	0.01	0.01	—	—	< 0.005	< 0.005	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.38	1.38	< 0.005	< 0.005	0.14	0.14	—	3.22	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.13	1.80	0.00	0.00	105	105	0.00	0.00	10.5	10.5	—	223	0.01	0.01	0.89
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	< 0.005	< 0.005	0.55	0.55	—	47.5	< 0.005	0.01	0.11
Hauling	< 0.005	< 0.005	0.11	0.01	< 0.005	< 0.005	7.46	7.46	< 0.005	< 0.005	0.75	0.75	—	70.9	< 0.005	0.01	0.13
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.19	0.13	1.65	0.00	0.00	105	105	0.00	0.00	10.5	10.5	—	217	0.01	0.01	0.02
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	< 0.005	< 0.005	0.55	0.55	—	47.5	< 0.005	0.01	< 0.005

Hauling	< 0.005	< 0.005	0.11	0.01	< 0.005	< 0.005	7.46	7.46	0.75	0.75	70.9	70.9	< 0.005	0.01	< 0.005	74.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.57	0.00	0.00	36.7	36.7	3.67	3.67	75.2	75.2	0.01	< 0.005	0.14	76.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	1.93	1.93	0.19	0.19	17.0	17.0	< 0.005	< 0.005	0.02	17.8
Hauling	< 0.005	< 0.005	0.04	< 0.005	< 0.005	< 0.005	2.61	2.61	0.26	0.26	25.5	25.5	< 0.005	< 0.005	0.02	26.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	6.69	6.69	0.67	0.67	12.5	12.5	< 0.005	< 0.005	0.02	12.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.35	0.35	0.04	0.04	2.82	2.82	< 0.005	< 0.005	< 0.005	2.94
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.48	0.48	0.05	0.05	4.21	4.21	< 0.005	< 0.005	< 0.005	4.41

3.3. Site Preparation (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	0.78	0.78	4.08	43.8	0.08	0.16	—	0.16	0.16	—	0.16	—	8,346	8,346	0.34	0.07	—	8,375
Dust From Material Movement	—	—	—	—	—	—	32.8	32.8	—	16.8	16.8	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.2	54.2	< 0.005	0.01	0.09	56.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.78	0.78	4.08	43.8	0.08	0.16	—	0.16	—	0.16	—	8,346	8,346	0.34	0.07	—	8,375
Dust From Material Movement	—	—	—	—	—	—	32.8	32.8	16.8	16.8	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	54.3	54.3	< 0.005	0.01	< 0.005	56.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.33	1.70	18.3	0.03	0.07	—	0.07	—	0.07	—	3,479	3,479	0.14	0.03	—	3,491
Dust From Material Movement	—	—	—	—	—	—	13.7	13.7	7.02	7.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	8.79	8.79	0.88	0.88	—	22.6	22.6	< 0.005	< 0.005	0.02	23.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.31	3.33	0.01	0.01	—	0.01	—	0.01	—	576	576	0.02	< 0.005	—	578
Dust From Material Movement	—	—	—	—	—	—	2.49	2.49	1.28	1.28	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.60	1.60	0.16	0.16	—	3.74	3.74	< 0.005	< 0.005	< 0.005	3.92
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.11	1.63	0.00	0.00	95.3	95.3	9.52	9.52	—	202	202	0.01	0.01	0.81	206

Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	47.5	47.5	< 0.005	0.01	0.11	49.6
Hauling	0.01	0.01	0.85	0.10	0.01	0.01	0.01	56.3	56.3	5.64	5.65	—	535	535	< 0.005	0.08	0.95	561
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.11	1.50	0.00	0.00	0.00	95.3	95.3	9.52	9.52	—	197	197	0.01	0.01	0.02	200
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	47.5	47.5	< 0.005	0.01	< 0.005	49.5
Hauling	0.01	0.01	0.86	0.10	0.01	0.01	0.01	56.3	56.3	5.64	5.65	—	535	535	< 0.005	0.08	0.02	560
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.60	0.00	0.00	0.00	38.7	38.7	3.87	3.87	—	79.4	79.4	0.01	< 0.005	0.15	80.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	2.25	2.25	0.22	0.23	—	19.8	19.8	< 0.005	< 0.005	0.02	20.7
Hauling	0.01	0.01	0.37	0.04	< 0.005	< 0.005	< 0.005	22.9	22.9	2.29	2.30	—	223	223	< 0.005	0.04	0.17	234
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.00	7.07	7.07	0.71	0.71	—	13.2	13.2	< 0.005	< 0.005	0.02	13.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.41	0.41	0.04	0.04	—	3.28	3.28	< 0.005	< 0.005	< 0.005	3.42
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	< 0.005	4.18	4.18	0.42	0.42	—	36.9	36.9	< 0.005	0.01	0.03	38.7

3.4. Site Preparation (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	0.78	0.78	4.08	43.8	0.08	0.16	—	0.16	0.16	—	0.16	—	8,346	8,346	0.34	0.07	—	8,375

Dust From Material Movement	—	—	—	—	—	—	—	—	32.8	32.8	—	16.8	16.8	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	< 0.005	< 0.005	21.6	21.6	—	2.16	2.16	—	54.2	< 0.005	0.01	0.09	56.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.78	4.08	43.8	0.08	0.16	0.16	0.16	—	0.16	—	0.16	—	8,346	8,346	0.34	0.07	—	8,375
Dust From Material Movement	—	—	—	—	—	—	—	—	32.8	32.8	—	16.8	16.8	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	< 0.005	< 0.005	21.6	21.6	—	2.16	2.16	—	54.3	< 0.005	0.01	< 0.005	56.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.33	1.70	18.3	0.03	0.07	0.07	0.07	—	0.07	—	0.07	—	3,479	3,479	0.14	0.03	—	3,491
Dust From Material Movement	—	—	—	—	—	—	—	—	13.7	13.7	—	7.02	7.02	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	< 0.005	< 0.005	8.79	8.79	—	0.88	0.88	—	22.6	< 0.005	< 0.005	0.02	23.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.31	3.33	0.01	0.01	0.01	0.01	—	0.01	—	0.01	—	576	576	0.02	< 0.005	—	578

Dust From Material Movement	—	—	—	—	—	2.49	2.49	—	—	1.28	1.28	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.60	1.60	1.60	< 0.005	0.16	0.16	—	3.74	3.74	< 0.005	< 0.005	< 0.005	3.92
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.11	1.63	0.00	0.00	95.3	95.3	95.3	0.00	9.52	9.52	—	202	202	0.01	0.01	0.81	206
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	5.53	< 0.005	0.55	0.55	—	47.5	47.5	< 0.005	0.01	0.11	49.6
Hauling	0.01	0.01	0.85	0.10	0.01	0.01	56.3	56.3	56.3	0.01	5.64	5.65	—	535	535	< 0.005	0.08	0.95	561
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.11	1.50	0.00	0.00	95.3	95.3	95.3	0.00	9.52	9.52	—	197	197	0.01	0.01	0.02	200
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	5.53	< 0.005	0.55	0.55	—	47.5	47.5	< 0.005	0.01	< 0.005	49.5
Hauling	0.01	0.01	0.86	0.10	0.01	0.01	56.3	56.3	56.3	0.01	5.64	5.65	—	535	535	< 0.005	0.08	0.02	560
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.60	0.00	0.00	38.7	38.7	38.7	0.00	3.87	3.87	—	79.4	79.4	0.01	< 0.005	0.15	80.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	2.25	2.25	2.25	< 0.005	0.22	0.23	—	19.8	19.8	< 0.005	< 0.005	0.02	20.7
Hauling	0.01	0.01	0.37	0.04	< 0.005	< 0.005	22.9	22.9	22.9	< 0.005	2.29	2.30	—	223	223	< 0.005	0.04	0.17	234
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	7.07	7.07	7.07	0.00	0.71	0.71	—	13.2	13.2	< 0.005	< 0.005	0.02	13.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.41	0.41	0.41	< 0.005	0.04	0.04	—	3.28	3.28	< 0.005	< 0.005	< 0.005	3.42
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	4.18	4.18	4.18	< 0.005	0.42	0.42	—	36.9	36.9	< 0.005	0.01	0.03	38.7

3.5. Site Preparation (2027) - 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	0.78	0.78	4.08	43.8	0.08	0.16	—	0.16	0.16	—	0.16	—	8,346	8,346	0.34	0.07	—	8,374
Dust From Material Movement	—	—	—	—	—	—	32.8	32.8	—	16.8	16.8	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.78	4.08	43.8	0.08	0.16	—	0.16	0.16	—	0.16	—	8,346	8,346	0.34	0.07	—	8,374
Dust From Material Movement	—	—	—	—	—	—	32.8	32.8	—	16.8	16.8	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	2.43	26.1	0.05	0.09	—	0.09	0.09	—	0.09	—	4,965	4,965	0.20	0.04	—	4,982
Dust From Material Movement	—	—	—	—	—	—	19.5	19.5	—	10.0	10.0	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	12.5	12.5	1.25	—	31.7	31.7	< 0.005	0.01	0.02	33.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.44	4.76	0.01	0.02	—	—	0.02	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	3.56	3.56	1.83	1.83	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.29	2.29	0.23	0.23	—	5.25	< 0.005	< 0.005	< 0.005	5.51
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.10	1.50	0.00	0.00	95.3	95.3	9.52	9.52	—	199	0.01	0.01	0.76	202
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	46.7	< 0.005	0.01	0.10	48.8
Hauling	0.01	0.01	0.82	0.10	< 0.005	0.01	56.3	56.3	5.64	5.65	—	526	< 0.005	0.08	0.88	552
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.10	1.39	0.00	0.00	95.3	95.3	9.52	9.52	—	194	0.01	0.01	0.02	196
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	46.7	< 0.005	0.01	< 0.005	48.7
Hauling	0.01	0.01	0.83	0.10	< 0.005	0.01	56.3	56.3	5.64	5.65	—	526	< 0.005	0.08	0.02	551
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.07	0.79	0.00	0.00	55.3	55.3	5.52	5.52	—	111	0.01	< 0.005	0.19	113
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	3.21	3.21	0.32	0.32	—	27.8	< 0.005	< 0.005	0.03	29.0
Hauling	0.01	0.01	0.51	0.06	< 0.005	0.01	32.7	32.7	3.27	3.28	—	313	< 0.005	0.05	0.23	328
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.14	0.00	0.00	10.1	10.1	1.01	1.01	—	18.4	< 0.005	< 0.005	0.03	18.7

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	4.60	4.60	< 0.005	< 0.005	< 0.005	4.80
Hauling	< 0.005	< 0.005	0.09	0.01	< 0.005	< 0.005	< 0.005	< 0.005	5.96	5.96	< 0.005	0.60	0.60	—	51.8	51.8	< 0.005	0.01	0.04	54.3

3.6. Site Preparation (2027) - 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	0.78	0.78	4.08	43.8	0.08	0.16	—	0.16	0.16	—	0.16	—	8,346	8,346	0.34	0.07	—	8,374
Dust From Material Movement	—	—	—	—	—	—	32.8	32.8	—	16.8	16.8	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.78	4.08	43.8	0.08	0.16	—	0.16	0.16	—	0.16	—	8,346	8,346	0.34	0.07	—	8,374
Dust From Material Movement	—	—	—	—	—	—	32.8	32.8	—	16.8	16.8	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.47	2.43	26.1	0.05	0.09	—	0.09	—	0.09	—	4,965	4,965	0.20	0.04	—	4,982
Dust From Material Movement	—	—	—	—	—	19.5	19.5	10.0	10.0	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.06	0.01	< 0.005	< 0.005	12.5	12.5	1.25	1.25	—	31.7	31.7	< 0.005	0.01	0.02	33.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.44	4.76	0.01	0.02	—	—	0.02	—	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	3.56	3.56	1.83	1.83	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.29	2.29	0.23	0.23	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.51
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.10	1.50	0.00	0.00	95.3	95.3	9.52	9.52	—	199	199	0.01	0.01	0.76	202
Vendor	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	46.7	46.7	< 0.005	0.01	0.10	48.8
Hauling	0.01	0.82	0.10	< 0.005	0.01	56.3	56.3	5.65	5.64	—	526	526	< 0.005	0.08	0.88	552
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.10	1.39	0.00	0.00	95.3	95.3	9.52	9.52	—	194	194	0.01	0.01	0.02	196
Vendor	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	46.7	46.7	< 0.005	0.01	< 0.005	48.7
Hauling	0.01	0.83	0.10	< 0.005	0.01	56.3	56.3	5.65	5.64	—	526	526	< 0.005	0.08	0.02	551
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.07	0.79	0.00	0.00	55.3	55.3	5.52	5.52	—	111	111	0.01	< 0.005	0.19	113

Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	< 0.005	< 0.005	3.21	< 0.005	0.32	0.32	—	27.8	27.8	< 0.005	< 0.005	0.03	29.0
Hauling	0.01	0.01	0.51	0.06	< 0.005	0.01	< 0.005	< 0.005	32.7	0.01	3.27	3.28	—	313	313	< 0.005	0.05	0.23	328
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.14	0.00	0.00	0.00	0.00	10.1	0.00	1.01	1.01	—	18.4	18.4	< 0.005	< 0.005	0.03	18.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.58	< 0.005	0.06	0.06	—	4.60	4.60	< 0.005	< 0.005	< 0.005	4.80
Hauling	< 0.005	< 0.005	0.09	0.01	< 0.005	< 0.005	< 0.005	< 0.005	5.96	< 0.005	0.60	0.60	—	51.8	51.8	< 0.005	0.01	0.04	54.3

3.7. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	3.00	25.7	0.03	0.07	—	0.07	0.07	—	0.07	—	3,692	3,692	0.15	0.03	—	3,704
Dust From Material Movement	—	—	—	—	—	—	3.20	3.20	—	0.35	0.35	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.3	54.3	< 0.005	0.01	< 0.005	56.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.52	4.48	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645

Dust From Material Movement	—	—	—	—	—	—	0.56	0.56	—	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	3.67	3.67	3.67	0.37	—	9.45	9.45	< 0.005	< 0.005	0.01	9.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	106	106	< 0.005	< 0.005	—	107
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.67	0.67	0.67	0.07	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.09	1.20	0.00	0.00	76.2	76.2	76.2	7.62	—	158	158	0.01	0.01	0.02	160
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	5.53	0.55	—	47.5	47.5	< 0.005	0.01	< 0.005	49.5
Hauling	0.10	0.09	5.82	0.67	0.05	0.07	382	382	382	38.3	38.4	3,634	3,634	< 0.005	0.57	0.17	3,805
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.20	0.00	0.00	12.9	12.9	12.9	1.29	—	26.6	26.6	< 0.005	< 0.005	0.05	27.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.94	0.94	0.94	0.09	—	8.27	8.27	< 0.005	< 0.005	0.01	8.63
Hauling	0.02	0.02	1.04	0.11	0.01	0.01	64.9	64.9	64.9	6.51	—	633	633	< 0.005	0.10	0.48	663
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	2.36	2.36	0.00	0.24	—	4.40	4.40	< 0.005	< 0.005	0.01	4.47

[illegible]

3.8. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	3.00	25.7	0.03	0.07	—	0.07	0.07	—	0.07	—	3,692	3,692	0.15	0.03	—	3,704
Dust From Material Movement	—	—	—	—	—	—	3.20	3.20	—	0.35	0.35	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.3	54.3	< 0.005	0.01	< 0.005	56.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.52	4.48	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645
Dust From Material Movement	—	—	—	—	—	—	0.56	0.56	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	3.67	3.67	< 0.005	0.37	0.37	—	9.45	9.45	< 0.005	< 0.005	0.01	9.90

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.82	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	107
Dust From Material Movement	—	—	—	—	—	0.10	0.10	0.10	—	0.01	0.01	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.67	0.67	< 0.005	0.07	0.07	—	1.56	1.56	< 0.005	< 0.005	< 0.005	< 0.005	1.64
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.09	1.20	0.00	0.00	76.2	76.2	0.00	7.62	7.62	—	158	158	0.01	0.01	0.02	0.02	160
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	< 0.005	0.55	0.55	—	47.5	47.5	< 0.005	0.01	< 0.005	< 0.005	49.5
Hauling	0.10	0.09	5.82	0.67	0.05	0.07	382	382	0.07	38.3	38.4	—	3,634	3,634	< 0.005	0.57	0.17	0.17	3,805
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.20	0.00	0.00	12.9	12.9	0.00	1.29	1.29	—	26.6	26.6	< 0.005	< 0.005	0.05	0.05	27.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.94	0.94	< 0.005	0.09	0.09	—	8.27	8.27	< 0.005	< 0.005	0.01	0.01	8.63
Hauling	0.02	0.02	1.04	0.11	0.01	0.01	64.9	64.9	0.01	6.50	6.51	—	633	633	< 0.005	0.10	0.48	0.48	663
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	2.36	2.36	0.00	0.24	0.24	—	4.40	4.40	< 0.005	< 0.005	0.01	0.01	4.47
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17	0.17	< 0.005	0.02	0.02	—	1.37	1.37	< 0.005	< 0.005	< 0.005	< 0.005	1.43
Hauling	< 0.005	< 0.005	0.19	0.02	< 0.005	< 0.005	11.8	11.9	< 0.005	1.19	1.19	—	105	105	< 0.005	0.02	0.08	0.08	110

3.9. Grading (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	3.00	25.7	0.03	0.07	—	0.07	0.07	—	0.07	—	3,695	3,695	0.15	0.03	—	3,707
Dust From Material Movement	—	—	—	—	—	—	3.20	3.20	—	0.35	0.35	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.39	3.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	477	477	0.02	< 0.005	—	479
Dust From Material Movement	—	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.72	2.72	< 0.005	0.27	0.27	—	6.89	6.89	< 0.005	< 0.005	< 0.005	7.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	79.0	79.0	< 0.005	< 0.005	—	79.3

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.50	0.05	—	1.14	1.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.20	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.14	0.13	0.08	1.11	0.00	0.00	76.2	7.62	—	155	155	0.01	0.01	0.01	0.02	0.02	157	
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	0.55	—	46.7	46.7	< 0.005	0.01	< 0.005	< 0.005	< 0.005	48.7	
Hauling	0.10	0.07	5.63	0.67	0.02	0.07	382	38.3	—	3,572	3,572	< 0.005	0.57	< 0.005	0.15	0.15	3,742	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.02	0.02	0.01	0.14	0.00	0.00	9.60	0.96	—	19.3	19.3	< 0.005	< 0.005	< 0.005	0.03	0.03	19.6	
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.70	0.07	—	6.03	6.03	< 0.005	< 0.005	< 0.005	0.01	0.01	6.30	
Hauling	0.01	0.01	0.75	0.09	< 0.005	0.01	48.2	4.83	—	461	461	< 0.005	0.07	< 0.005	0.33	0.33	484	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	1.75	0.18	—	3.20	3.20	< 0.005	< 0.005	< 0.005	0.01	0.01	3.25	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.13	0.01	—	1.00	1.00	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.04	
Hauling	< 0.005	< 0.005	0.14	0.02	< 0.005	< 0.005	8.79	0.88	—	76.4	76.4	< 0.005	0.01	< 0.005	0.06	0.06	80.1	

3.10. Grading (2027) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	3.00	25.7	0.03	0.07	—	0.07	0.07	—	0.07	—	—	3.695	3.695	0.15	0.03	—	3,707
Dust From Material Movement	—	—	—	—	—	—	3.20	3.20	—	0.35	0.35	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	< 0.005	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.39	3.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	—	477	477	0.02	< 0.005	—	479
Dust From Material Movement	—	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.72	2.72	< 0.005	0.27	0.27	< 0.005	—	6.89	6.89	< 0.005	< 0.005	< 0.005	7.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	—	—	79.0	79.0	< 0.005	< 0.005	< 0.005	79.3
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—	—

[illegible]

3.11. Building Construction (2027) - Unmitigated

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

[illegible]

Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.19	8.37	0.01	0.03	—	0.03	—	0.03	—	1,403	1,403	0.06	0.01	—	1,407
Onsite truck	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	12.3	12.3	1.23	1.23	—	31.2	31.2	< 0.005	< 0.005	0.02	32.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.22	1.53	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	232	232	0.01	< 0.005	—	233
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.25	2.25	0.22	0.22	—	5.17	5.17	< 0.005	< 0.005	< 0.005	5.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.40	2.21	1.40	20.7	0.00	0.00	1,312	1,312	131	131	—	2,737	2,737	0.16	0.11	10.4	2,783
Vendor	0.13	0.11	3.98	1.16	0.02	0.03	289	289	28.9	29.0	—	2,439	2,439	< 0.005	0.35	5.26	2,550

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	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.36	2.24	1.40	19.1	0.00	0.00	0.00	0.00	1,312	0.00	131	131	—	2,666	2,666	0.16	0.11	0.27	2,702
Vendor	0.13	0.11	4.01	1.19	0.02	0.03	0.00	0.00	289	0.03	28.9	29.0	—	2,440	2,440	< 0.005	0.35	0.14	2,546
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.30	1.22	0.93	10.7	0.00	0.00	0.00	0.00	749	0.00	74.8	74.8	—	1,508	1,508	0.10	0.06	2.63	1,532
Vendor	0.07	0.06	2.40	0.69	0.01	0.02	0.00	0.00	165	0.02	16.5	16.5	—	1,427	1,427	< 0.005	0.21	1.33	1,491
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.17	1.95	0.00	0.00	0.00	0.00	137	0.00	13.7	13.7	—	250	250	0.02	0.01	0.44	254
Vendor	0.01	0.01	0.44	0.13	< 0.005	< 0.005	< 0.005	< 0.005	30.1	< 0.005	3.01	3.01	—	236	236	< 0.005	0.03	0.22	247
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	0.00

3.12. Building Construction (2027) - Mitigated

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

Location	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	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9

Vendor	0.13	0.11	4.01	1.19	0.02	0.03	0.03	289	28.9	29.0	—	2,440	2,440	< 0.005	0.35	0.14	2,546
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.30	1.22	0.93	10.7	0.00	0.00	0.00	749	74.8	74.8	—	1,508	1,508	0.10	0.06	2.63	1,532
Vendor	0.07	0.06	2.40	0.69	0.01	0.02	0.02	165	16.5	16.5	—	1,427	1,427	< 0.005	0.21	1.33	1,491
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.17	1.95	0.00	0.00	0.00	137	13.7	13.7	—	250	250	0.02	0.01	0.44	254
Vendor	0.01	0.01	0.44	0.13	< 0.005	< 0.005	< 0.005	30.1	3.01	3.01	—	236	236	< 0.005	0.03	0.22	247
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

3.13. Building Construction (2028) - 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	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.2	52.2	< 0.005	0.01	0.08	54.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,406

Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.3	52.3	< 0.005	0.01	< 0.005	54.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.45	10.2	0.02	0.03	—	0.03	0.03	0.03	—	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.51	1.51	—	37.4	37.4	< 0.005	0.01	0.02	39.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.27	1.87	< 0.005	0.01	—	0.01	0.01	—	0.01	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.76	2.76	< 0.005	0.28	0.28	—	6.20	6.20	< 0.005	< 0.005	< 0.005	6.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.23	2.04	1.30	19.2	0.00	0.00	1,312	1,312	0.00	131	131	—	2,688	2,688	0.15	0.11	9.69	2,733
Vendor	0.13	0.10	3.75	1.06	0.02	0.03	289	289	0.03	28.9	29.0	—	2,389	2,389	< 0.005	0.34	4.70	2,494
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	2.26	2.07	1.31	17.7	0.00	0.00	1,312	1,312	0.00	131	131	—	2,618	2,618	0.15	0.11	0.25	2,654
Vendor	0.13	0.10	3.79	1.10	0.02	0.03	289	289	0.03	28.9	29.0	—	2,390	2,390	< 0.005	0.34	0.12	2,491
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	1.52	1.38	1.08	12.1	0.00	0.00	916	916	0.00	91.6	91.6	—	1,813	1,813	0.12	0.08	3.00	1,842
Vendor	0.08	0.07	2.77	0.78	0.01	0.02	202	202	0.02	20.2	20.2	—	1,712	1,712	< 0.005	0.24	1.45	1,785

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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.25	0.20	2.22	0.00	0.00	167	167	0.00	16.7	16.7	—	300	300	0.02	0.01	0.50	305	305
Vendor	0.01	0.01	0.51	0.14	< 0.005	< 0.005	36.8	36.8	< 0.005	3.69	3.69	—	283	283	< 0.005	0.04	0.24	295	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	0.00

3.14. Building Construction (2028) - 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	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.2	52.2	< 0.005	0.01	0.08	54.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.3	52.3	< 0.005	0.01	< 0.005	54.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.45	10.2	0.02	0.03	—	0.03	0.03	—	0.03	—	1,717	1,717	0.07	0.01	—	1,723

Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.51	—	37.4	37.4	< 0.005	0.01	0.02	39.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.27	1.87	< 0.005	0.01	—	—	0.01	0.01	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.76	2.76	< 0.005	0.28	—	6.20	6.20	< 0.005	< 0.005	< 0.005	6.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.23	2.04	1.30	19.2	0.00	0.00	1,312	1,312	0.00	131	—	2,688	2,688	0.15	0.11	9.69	2,733
Vendor	0.13	0.10	3.75	1.06	0.02	0.03	289	289	0.03	28.9	29.0	2,389	2,389	< 0.005	0.34	4.70	2,494
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.26	2.07	1.31	17.7	0.00	0.00	1,312	1,312	0.00	131	—	2,618	2,618	0.15	0.11	0.25	2,654
Vendor	0.13	0.10	3.79	1.10	0.02	0.03	289	289	0.03	28.9	29.0	2,390	2,390	< 0.005	0.34	0.12	2,491
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.52	1.38	1.08	12.1	0.00	0.00	916	916	0.00	91.6	91.6	1,813	1,813	0.12	0.08	3.00	1,842
Vendor	0.08	0.07	2.77	0.78	0.01	0.02	202	202	0.02	20.2	20.2	1,712	1,712	< 0.005	0.24	1.45	1,785
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.25	0.20	2.22	0.00	0.00	167	167	0.00	16.7	16.7	300	300	0.02	0.01	0.50	305
Vendor	0.01	0.01	0.51	0.14	< 0.005	< 0.005	36.8	36.8	< 0.005	3.69	3.69	283	283	< 0.005	0.04	0.24	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

3.15. Building Construction (2029) - 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	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	51.1	51.1	< 0.005	0.01	0.07	53.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	51.2	51.2	< 0.005	0.01	< 0.005	53.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.45	10.2	0.02	0.03	—	0.03	0.03	—	0.03	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.50	1.50	—	36.5	36.5	< 0.005	0.01	0.02	38.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.26	1.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	283	283	0.01	< 0.005	—	284

Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	2.75	2.75	0.27	0.27	—	6.05	< 0.005	< 0.005	< 0.005	6.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.05	1.94	1.14	17.7	0.00	0.00	1,312	1,312	1,312	131	131	—	2,639	0.15	0.11	8.97	2,684
Vendor	0.11	0.10	3.54	1.00	0.02	0.03	289	289	28.9	29.0	29.0	—	2,333	< 0.005	0.34	4.19	2,437
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.08	1.98	1.14	16.3	0.00	0.00	1,312	1,312	131	131	131	—	2,571	0.15	0.11	0.23	2,607
Vendor	0.11	0.10	3.60	1.03	0.02	0.03	289	289	28.9	29.0	29.0	—	2,334	< 0.005	0.34	0.11	2,434
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.39	1.30	0.95	11.2	0.00	0.00	914	914	91.4	91.4	91.4	—	1,776	0.11	0.08	2.77	1,804
Vendor	0.07	0.07	2.62	0.74	0.01	0.02	201	201	20.1	20.2	20.2	—	1,667	< 0.005	0.24	1.30	1,740
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.24	0.17	2.04	0.00	0.00	167	167	16.7	16.7	16.7	—	294	0.02	0.01	0.46	299
Vendor	0.01	0.01	0.48	0.13	< 0.005	< 0.005	36.7	36.7	3.68	3.68	3.68	—	276	< 0.005	0.04	0.21	288
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

3.16. Building Construction (2029) - 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

Worker	2.05	1.94	1.14	17.7	0.00	0.00	0.00	1,312	1,312	0.00	131	131	—	2,639	2,639	0.15	0.11	8.97	2,684
Vendor	0.11	0.10	3.54	1.00	0.02	0.03	0.03	289	289	0.03	28.9	29.0	—	2,333	2,333	< 0.005	0.34	4.19	2,437
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.08	1.98	1.14	16.3	0.00	0.00	0.00	1,312	1,312	0.00	131	131	—	2,571	2,571	0.15	0.11	0.23	2,607
Vendor	0.11	0.10	3.60	1.03	0.02	0.03	0.03	289	289	0.03	28.9	29.0	—	2,334	2,334	< 0.005	0.34	0.11	2,434
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.39	1.30	0.95	11.2	0.00	0.00	0.00	914	914	0.00	91.4	91.4	—	1,776	1,776	0.11	0.08	2.77	1,804
Vendor	0.07	0.07	2.62	0.74	0.01	0.02	0.02	201	201	0.02	20.1	20.2	—	1,667	1,667	< 0.005	0.24	1.30	1,740
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.24	0.17	2.04	0.00	0.00	0.00	167	167	0.00	16.7	16.7	—	294	294	0.02	0.01	0.46	299
Vendor	0.01	0.01	0.48	0.13	< 0.005	< 0.005	< 0.005	36.7	36.7	< 0.005	3.68	3.68	—	276	276	< 0.005	0.04	0.21	288
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	0.00

3.17. Building Construction (2030) - 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	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	49.9	49.9	< 0.005	0.01	0.07	52.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	50.0	50.0	< 0.005	0.01	< 0.005	52.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.16	0.16	1.45	10.2	0.02	0.03	—	0.03	0.03	—	0.03	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.50	1.50	—	35.7	35.7	< 0.005	0.01	0.02	37.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.03	0.03	0.26	1.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.75	2.75	< 0.005	0.27	0.27	—	5.91	5.91	< 0.005	< 0.005	< 0.005	6.19
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.95	1.83	1.04	16.3	0.00	0.00	1,312	1,312	0.00	131	131	—	2,592	2,592	0.15	0.11	8.26	2,636
Vendor	0.10	0.08	3.35	0.94	0.02	0.03	289	289	0.03	28.9	29.0	—	2,270	2,270	< 0.005	0.32	3.75	2,369
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	1.99	1.88	1.04	15.0	0.00	0.00	0.00	1,312	1,312	0.00	131	131	—	2,526	2,526	0.15	0.11	0.21	2,562
Vendor	0.10	0.08	3.39	0.97	0.02	0.03	0.03	289	289	0.03	28.9	29.0	—	2,272	2,272	< 0.005	0.32	0.10	2,367
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.33	1.24	0.88	10.3	0.00	0.00	0.00	914	914	0.00	91.4	91.4	—	1,744	1,744	0.11	0.08	2.55	1,773
Vendor	0.07	0.06	2.47	0.69	0.01	0.02	0.02	201	201	0.02	20.1	20.2	—	1,622	1,622	< 0.005	0.23	1.16	1,691
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.23	0.16	1.88	0.00	0.00	0.00	167	167	0.00	16.7	16.7	—	289	289	0.02	0.01	0.42	293
Vendor	0.01	0.01	0.45	0.13	< 0.005	< 0.005	< 0.005	36.7	36.7	< 0.005	3.68	3.68	—	269	269	< 0.005	0.04	0.19	280
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	0.00

3.18. Building Construction (2030) - 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	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	49.9	49.9	< 0.005	0.01	0.07	52.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	2.16	2.16	50.0	50.0	< 0.005	0.01	< 0.005	52.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.45	10.2	0.02	0.03	—	0.03	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	1.50	1.50	35.7	35.7	< 0.005	0.01	0.02	37.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.26	1.86	< 0.005	0.01	—	0.01	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.75	0.27	0.27	5.91	5.91	< 0.005	< 0.005	< 0.005	6.19
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.95	1.83	1.04	16.3	0.00	0.00	1,312	131	131	2,592	2,592	0.15	0.11	8.26	2,636
Vendor	0.10	0.08	3.35	0.94	0.02	0.03	289	28.9	29.0	2,270	2,270	< 0.005	0.32	3.75	2,369
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.99	1.88	1.04	15.0	0.00	0.00	1,312	131	131	2,526	2,526	0.15	0.11	0.21	2,562
Vendor	0.10	0.08	3.39	0.97	0.02	0.03	289	28.9	29.0	2,272	2,272	< 0.005	0.32	0.10	2,367
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

[illegible]

3.19. Building Construction (2031) - 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	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	48.8	48.8	< 0.005	0.01	0.06	51.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	48.9	48.9	< 0.005	0.01	< 0.005	51.1

[illegible]

Worker	0.10	0.09	0.06	0.76	0.00	0.00	0.00	73.1	73.1	0.00	7.31	7.31	—	124	124	0.01	0.01	0.17	126
Vendor	< 0.005	< 0.005	0.19	0.05	< 0.005	< 0.005	< 0.005	16.1	16.1	< 0.005	1.61	1.61	—	114	114	< 0.005	0.02	0.07	119
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	0.00

3.20. Building Construction (2031) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/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	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	48.8	48.8	< 0.005	0.01	0.06	51.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	48.9	48.9	< 0.005	0.01	< 0.005	51.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.64	4.48	0.01	0.01	—	0.01	0.01	—	0.01	—	750	750	0.03	0.01	—	753
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	6.60	6.60	< 0.005	0.66	0.66	—	15.3	15.3	< 0.005	< 0.005	0.01	16.0

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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,830	2,830	0.11	0.02	—	2,840
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,830	2,830	0.11	0.02	—	2,840
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.92	9.15	0.01	0.02	—	0.02	0.02	—	0.02	—	1,307	1,307	0.05	0.01	—	1,311
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	9.74	9.74	< 0.005	0.97	0.97	—	24.6	24.6	< 0.005	< 0.005	0.02	25.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.17	1.67	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	216	216	0.01	< 0.005	< 0.005	—	217
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	1.78	< 0.005	0.18	0.18	0.18	—	4.08	4.08	< 0.005	< 0.005	< 0.005	< 0.005	4.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.10	1.50	0.00	95.3	95.3	95.3	9.52	9.52	—	199	199	0.01	0.01	0.76	202	202
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	5.53	5.53	5.53	0.55	0.55	—	46.7	46.7	< 0.005	0.01	0.10	48.8	48.8
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	0.17	0.16	0.10	1.39	0.00	95.3	95.3	95.3	9.52	9.52	—	194	194	0.01	0.01	0.02	196	196
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	5.53	5.53	5.53	0.55	0.55	—	46.7	46.7	< 0.005	0.01	< 0.005	48.7	48.7
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	0.07	0.05	0.61	0.00	42.9	42.9	42.9	4.29	4.29	—	86.4	86.4	0.01	< 0.005	0.15	87.8	87.8
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	2.49	2.49	2.49	0.25	0.25	—	21.6	21.6	< 0.005	< 0.005	0.02	22.5	22.5
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	0.11	0.00	7.83	7.83	7.83	0.78	0.78	—	14.3	14.3	< 0.005	< 0.005	0.02	14.5	14.5
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.45	0.45	0.45	0.05	0.05	—	3.57	3.57	< 0.005	< 0.005	< 0.005	3.73	3.73
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

3.22. Paving (2027) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,830	2,830	0.11	0.02	—	2,840
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,830	2,830	0.11	0.02	—	2,840
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.92	9.15	0.01	0.02	—	0.02	0.02	—	0.02	—	1,307	1,307	0.05	0.01	—	1,311
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	9.74	9.74	< 0.005	0.97	0.97	—	24.6	24.6	< 0.005	< 0.005	0.02	25.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.17	1.67	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	216	216	0.01	< 0.005	< 0.005	—	217
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	1.78	< 0.005	1.78	0.18	0.18	—	4.08	4.08	< 0.005	< 0.005	< 0.005	< 0.005	4.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.10	1.50	0.00	95.3	0.00	95.3	9.52	9.52	—	199	199	0.01	0.01	0.76	202	
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	5.53	< 0.005	5.53	0.55	0.55	—	46.7	46.7	< 0.005	0.01	0.10	48.8	
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	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.10	1.39	0.00	95.3	0.00	95.3	9.52	9.52	—	194	194	0.01	0.01	0.02	196	
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	5.53	< 0.005	5.53	0.55	0.55	—	46.7	46.7	< 0.005	0.01	< 0.005	48.7	
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	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.61	0.00	42.9	0.00	42.9	4.29	4.29	—	86.4	86.4	0.01	< 0.005	0.15	87.8	
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	2.49	< 0.005	2.49	0.25	0.25	—	21.6	21.6	< 0.005	< 0.005	0.02	22.5	
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	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	7.83	0.00	7.83	0.78	0.78	—	14.3	14.3	< 0.005	< 0.005	0.02	14.5	
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.45	< 0.005	0.45	0.05	0.05	—	3.57	3.57	< 0.005	< 0.005	< 0.005	3.73	
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	

3.23. Paving (2028) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,830	2,830	0.11	0.02	—	2,840
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.2	52.2	< 0.005	0.01	0.08	54.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,830	2,830	0.11	0.02	—	2,840
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.3	52.3	< 0.005	0.01	< 0.005	54.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.42	14.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,027	2,027	0.08	0.02	—	2,034
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.51	1.51	—	37.4	37.4	< 0.005	0.01	0.02	39.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.04	0.26	2.59	< 0.005	0.01	—	0.01	—	0.01	—	336	336	0.01	< 0.005	—	337
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.76	2.76	0.28	0.28	—	6.20	6.20	< 0.005	< 0.005	< 0.005	6.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.09	1.40	0.00	0.00	95.3	95.3	9.52	9.52	—	195	195	0.01	0.01	0.70	198
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	45.7	45.7	< 0.005	0.01	0.09	47.7
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.10	1.29	0.00	0.00	95.3	95.3	9.52	9.52	—	190	190	0.01	0.01	0.02	193
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	45.7	45.7	< 0.005	0.01	< 0.005	47.7
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	0.88	0.00	0.00	66.5	66.5	6.65	6.65	—	132	132	0.01	0.01	0.22	134
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	3.86	3.86	0.39	0.39	—	32.7	32.7	< 0.005	< 0.005	0.03	34.1
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	0.00	12.1	12.1	1.21	1.21	—	21.8	21.8	< 0.005	< 0.005	0.04	22.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.70	0.70	0.07	0.07	—	5.42	5.42	< 0.005	< 0.005	< 0.005	5.65
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

3.24. Paving (2028) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,830	2,830	0.11	0.02	—	2,840
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.2	52.2	< 0.005	0.01	0.08	54.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,830	2,830	0.11	0.02	—	2,840
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.3	52.3	< 0.005	0.01	< 0.005	54.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.42	14.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,027	2,027	0.08	0.02	—	2,034
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.51	1.51	—	37.4	37.4	< 0.005	0.01	0.02	39.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.04	0.26	2.59	< 0.005	0.01	—	0.01	—	0.01	—	336	336	0.01	< 0.005	—	337
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.76	2.76	0.28	0.28	—	6.20	6.20	< 0.005	< 0.005	< 0.005	6.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.09	1.40	0.00	0.00	95.3	95.3	9.52	9.52	—	195	195	0.01	0.01	0.70	198
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	45.7	45.7	< 0.005	0.01	0.09	47.7
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.10	1.29	0.00	0.00	95.3	95.3	9.52	9.52	—	190	190	0.01	0.01	0.02	193
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	45.7	45.7	< 0.005	0.01	< 0.005	47.7
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	0.88	0.00	0.00	66.5	66.5	6.65	6.65	—	132	132	0.01	0.01	0.22	134
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	3.86	3.86	0.39	0.39	—	32.7	32.7	< 0.005	< 0.005	0.03	34.1
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	0.00	12.1	12.1	1.21	1.21	—	21.8	21.8	< 0.005	< 0.005	0.04	22.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.70	0.70	0.07	0.07	—	5.42	5.42	< 0.005	< 0.005	< 0.005	5.65
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

3.25. Paving (2029) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	51.1	51.1	< 0.005	0.01	0.07	53.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	51.2	51.2	< 0.005	0.01	< 0.005	53.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.42	14.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,021	2,021	0.08	0.02	—	2,028
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.50	1.50	—	36.5	36.5	< 0.005	0.01	0.02	38.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.04	0.26	2.58	< 0.005	0.01	—	0.01	—	0.01	—	335	335	0.01	< 0.005	—	336
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.75	2.75	0.27	0.27	—	6.05	6.05	< 0.005	< 0.005	< 0.005	6.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.08	1.28	0.00	0.00	95.3	95.3	9.52	9.52	—	192	192	0.01	0.01	0.65	195
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	44.6	44.6	< 0.005	0.01	0.08	46.6
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.08	1.18	0.00	0.00	95.3	95.3	9.52	9.52	—	187	187	0.01	0.01	0.02	189
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	44.7	44.7	< 0.005	0.01	< 0.005	46.6
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.07	0.81	0.00	0.00	66.3	66.3	6.63	6.63	—	129	129	0.01	0.01	0.20	131
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	3.85	3.85	0.39	0.39	—	31.9	31.9	< 0.005	< 0.005	0.02	33.3
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.15	0.00	0.00	12.1	12.1	1.21	1.21	—	21.3	21.3	< 0.005	< 0.005	0.03	21.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.70	0.70	0.07	0.07	—	5.28	5.28	< 0.005	< 0.005	< 0.005	5.51
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

3.26. Paving (2029) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	51.1	51.1	< 0.005	0.01	0.07	53.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	51.2	51.2	< 0.005	0.01	< 0.005	53.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.42	14.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,021	2,021	0.08	0.02	—	2,028
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.50	1.50	—	36.5	36.5	< 0.005	0.01	0.02	38.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.04	0.26	2.58	< 0.005	0.01	—	0.01	—	0.01	—	335	335	0.01	< 0.005	—	336
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.75	2.75	0.27	0.27	—	6.05	6.05	< 0.005	< 0.005	< 0.005	6.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.08	1.28	0.00	0.00	95.3	95.3	9.52	9.52	—	192	192	0.01	0.01	0.65	195
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	44.6	44.6	< 0.005	0.01	0.08	46.6
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.08	1.18	0.00	0.00	95.3	95.3	9.52	9.52	—	187	187	0.01	0.01	0.02	189
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	44.7	44.7	< 0.005	0.01	< 0.005	46.6
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.07	0.81	0.00	0.00	66.3	66.3	6.63	6.63	—	129	129	0.01	0.01	0.20	131
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	3.85	3.85	0.39	0.39	—	31.9	31.9	< 0.005	< 0.005	0.02	33.3
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.15	0.00	0.00	12.1	12.1	1.21	1.21	—	21.3	21.3	< 0.005	< 0.005	0.03	21.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.70	0.70	0.07	0.07	—	5.28	5.28	< 0.005	< 0.005	< 0.005	5.51
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

3.27. Paving (2030) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	49.9	49.9	< 0.005	0.01	0.07	52.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	50.0	50.0	< 0.005	0.01	< 0.005	52.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.42	14.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,021	2,021	0.08	0.02	—	2,028
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.50	1.50	—	35.7	35.7	< 0.005	0.01	0.02	37.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.04	0.26	2.58	< 0.005	0.01	—	0.01	—	0.01	—	335	335	0.01	< 0.005	—	336
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.75	2.75	0.27	0.27	—	5.91	5.91	< 0.005	< 0.005	< 0.005	6.19
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.08	1.18	0.00	0.00	95.3	95.3	9.52	9.52	—	188	188	0.01	0.01	0.60	191
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	43.4	43.4	< 0.005	0.01	0.07	45.3
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.14	0.08	1.09	0.00	0.00	95.3	95.3	9.52	9.52	—	183	183	0.01	0.01	0.02	186
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	43.5	43.5	< 0.005	0.01	< 0.005	45.3
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	0.75	0.00	0.00	66.3	66.3	6.63	6.63	—	127	127	0.01	0.01	0.18	129
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	3.85	3.85	0.39	0.39	—	31.0	31.0	< 0.005	< 0.005	0.02	32.4
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.14	0.00	0.00	12.1	12.1	1.21	1.21	—	21.0	21.0	< 0.005	< 0.005	0.03	21.3
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.70	0.70	0.07	0.07	—	5.14	5.14	< 0.005	< 0.005	< 0.005	5.36
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

3.28. Paving (2030) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	49.9	49.9	< 0.005	0.01	0.07	52.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	50.0	50.0	< 0.005	0.01	< 0.005	52.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.42	14.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,021	2,021	0.08	0.02	—	2,028
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.50	1.50	—	35.7	35.7	< 0.005	0.01	0.02	37.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.04	0.26	2.58	< 0.005	0.01	—	0.01	—	0.01	—	335	335	0.01	< 0.005	—	336
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.75	2.75	0.27	0.27	—	5.91	5.91	< 0.005	< 0.005	< 0.005	6.19
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.08	1.18	0.00	0.00	95.3	95.3	9.52	9.52	—	188	188	0.01	0.01	0.60	191
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	43.4	43.4	< 0.005	0.01	0.07	45.3
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.14	0.08	1.09	0.00	0.00	95.3	95.3	9.52	9.52	—	183	183	0.01	0.01	0.02	186
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	5.53	5.53	0.55	0.55	—	43.5	43.5	< 0.005	0.01	< 0.005	45.3
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	0.75	0.00	0.00	66.3	66.3	6.63	6.63	—	127	127	0.01	0.01	0.18	129
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	3.85	3.85	0.39	0.39	—	31.0	31.0	< 0.005	< 0.005	0.02	32.4
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.14	0.00	0.00	12.1	12.1	1.21	1.21	—	21.0	21.0	< 0.005	< 0.005	0.03	21.3
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.70	0.70	0.07	0.07	—	5.14	5.14	< 0.005	< 0.005	< 0.005	5.36
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

3.29. Paving (2031) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	48.8	48.8	< 0.005	0.01	0.06	51.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	48.9	48.9	< 0.005	0.01	< 0.005	51.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	1.03	10.3	0.01	0.03	—	0.03	0.03	—	0.03	—	1,473	1,473	0.06	0.01	—	1,478
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	11.0	11.0	< 0.005	1.10	1.10	—	25.4	25.4	< 0.005	< 0.005	0.01	26.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	0.19	1.88	< 0.005	0.01	—	0.01	—	0.01	—	244	244	0.01	< 0.005	—	245
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	< 0.005	0.20	0.20	—	4.21	4.21	< 0.005	< 0.005	< 0.005	4.41
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.07	1.08	0.00	0.00	95.3	0.00	9.52	9.52	—	185	185	0.01	0.01	0.55	188
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	5.53	< 0.005	0.55	0.55	—	42.2	42.2	< 0.005	0.01	0.06	44.1
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.07	1.00	0.00	0.00	95.3	0.00	9.52	9.52	—	180	180	0.01	0.01	0.01	183
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	5.53	< 0.005	0.55	0.55	—	42.2	42.2	< 0.005	0.01	< 0.005	44.1
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.50	0.00	0.00	48.3	0.00	4.83	4.83	—	90.7	90.7	0.01	< 0.005	0.12	92.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	2.80	< 0.005	0.28	0.28	—	22.0	22.0	< 0.005	< 0.005	0.01	22.9
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	8.82	0.00	0.88	0.88	—	15.0	15.0	< 0.005	< 0.005	0.02	15.3
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.51	< 0.005	0.05	0.05	—	3.64	3.64	< 0.005	< 0.005	< 0.005	3.80
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

3.30. Paving (2031) - 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	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	48.8	48.8	< 0.005	0.01	0.06	51.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.99	19.8	0.03	0.05	—	0.05	0.05	—	0.05	—	2,829	2,829	0.11	0.02	—	2,839
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	48.9	48.9	< 0.005	0.01	< 0.005	51.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	1.03	10.3	0.01	0.03	—	0.03	0.03	—	0.03	—	1,473	1,473	0.06	0.01	—	1,478
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	11.0	11.0	< 0.005	1.10	1.10	—	25.4	25.4	< 0.005	< 0.005	0.01	26.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	0.19	1.88	< 0.005	0.01	—	0.01	—	0.01	—	244	244	0.01	< 0.005	—	245
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	< 0.005	0.20	0.20	—	4.21	4.21	< 0.005	< 0.005	< 0.005	4.41
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.07	1.08	0.00	0.00	95.3	0.00	9.52	9.52	—	185	185	0.01	0.01	0.55	188
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	5.53	< 0.005	0.55	0.55	—	42.2	42.2	< 0.005	0.01	0.06	44.1
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.07	1.00	0.00	0.00	95.3	0.00	9.52	9.52	—	180	180	0.01	0.01	0.01	183
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	5.53	< 0.005	0.55	0.55	—	42.2	42.2	< 0.005	0.01	< 0.005	44.1
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.50	0.00	0.00	48.3	0.00	4.83	4.83	—	90.7	90.7	0.01	< 0.005	0.12	92.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	2.80	< 0.005	0.28	0.28	—	22.0	22.0	< 0.005	< 0.005	0.01	22.9
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	8.82	0.00	0.88	0.88	—	15.0	15.0	< 0.005	< 0.005	0.02	15.3
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.51	< 0.005	0.05	0.05	—	3.64	3.64	< 0.005	< 0.005	< 0.005	3.80
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

3.31. Architectural Coating (2027) - Unmitigated

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

Location	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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	25.9	25.9	< 0.005	< 0.005	—	26.0

Architectural Coating	3.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	4.09	< 0.005	0.41	0.41	—	10.3	10.3	< 0.005	< 0.005	< 0.005	0.01	10.8	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	4.28	4.28	< 0.005	< 0.005	< 0.005	—	4.30	
Architectural Coatings	0.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.75	< 0.005	0.07	0.07	—	1.71	1.71	< 0.005	< 0.005	< 0.005	< 0.005	1.79	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.48	0.44	0.28	4.14	0.00	0.00	0.00	262	0.00	26.2	26.2	—	547	547	0.03	0.02	0.00	2.08	557	
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	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	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.47	0.45	0.28	3.82	0.00	0.00	0.00	262	0.00	26.2	26.2	—	533	533	0.03	0.02	0.00	0.05	540	
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	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	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.09	0.08	0.06	0.71	0.00	0.00	0.00	49.6	0.00	4.96	4.96	—	99.9	99.9	0.01	< 0.005	0.17	101	101	
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	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	0.00	

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.13	0.00	0.00	9.05	9.05	0.00	0.90	0.90	—	16.5	< 0.005	< 0.005	0.03	16.8	0.00	16.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00

3.32. Architectural Coating (2027) - Mitigated

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

Location	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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.13	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	26.0
Architectural Coatings	3.39	3.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	4.09	< 0.005	< 0.005	0.41	—	10.3	< 0.005	< 0.005	< 0.005	0.01	10.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.28	< 0.005	< 0.005	< 0.005	—	4.30
Architectural Coatings	0.62	0.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.75	< 0.005	< 0.005	0.07	—	1.71	< 0.005	< 0.005	< 0.005	< 0.005	1.79
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.44	0.28	4.14	0.00	0.00	0.00	262	0.00	26.2	26.2	—	547	0.03	0.02	2.08	557	557
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	0.47	0.45	0.28	3.82	0.00	0.00	0.00	262	0.00	26.2	26.2	—	533	0.03	0.02	0.05	540	540
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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	0.71	0.00	0.00	49.6	0.00	4.96	4.96	0.00	99.9	0.01	< 0.005	0.17	101	0.00	0.00	0.00
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	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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.13	0.00	0.00	9.05	0.00	0.90	0.90	0.00	16.5	< 0.005	< 0.005	0.03	16.8	0.00	0.00	0.00
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	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	0.00	0.00

3.33. Architectural Coating (2028) - 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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134	
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	52.2	52.2	< 0.005	0.01	0.08	54.8	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	134	134	0.01	< 0.005	< 0.005	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	< 0.005	21.6	< 0.005	< 0.005	2.16	2.16	52.3	52.3	< 0.005	0.01	< 0.005	54.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.46	0.69	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	95.6	95.6	< 0.005	< 0.005	< 0.005	96.0
Architectural Coatings	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	< 0.005	15.1	< 0.005	< 0.005	1.51	1.51	37.4	37.4	< 0.005	0.01	0.02	39.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	15.8	15.8	< 0.005	< 0.005	< 0.005	15.9
Architectural Coatings	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	2.76	< 0.005	< 0.005	0.28	0.28	6.20	6.20	< 0.005	< 0.005	< 0.005	6.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.41	0.26	3.84	0.00	0.00	0.00	262	262	0.00	26.2	26.2	538	538	0.03	0.02	1.94	547

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	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	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.41	0.26	3.54	0.00	0.00	0.00	0.00	0.00	0.00	26.2	26.2	0.00	524	0.03	0.02	0.05	531	0.00
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	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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.28	0.22	2.43	0.00	0.00	0.00	0.00	0.00	183	18.3	18.3	0.00	363	0.02	0.02	0.60	368	0.00
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	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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.44	0.00	0.00	0.00	0.00	0.00	33.4	3.34	3.34	0.00	60.0	< 0.005	< 0.005	0.10	61.0	0.00
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	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	0.00	0.00

3.34. Architectural Coating (2028) - 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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134

Architectural Coatings	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.10	0.02	< 0.005	< 0.005	< 0.005	< 0.005	21.6	< 0.005	2.16	2.16	—	52.2	52.2	< 0.005	0.01	0.08	54.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	0.96	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.10	0.02	< 0.005	< 0.005	< 0.005	< 0.005	21.6	< 0.005	2.16	2.16	—	52.3	52.3	< 0.005	0.01	< 0.005	54.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.46	0.69	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	95.6	95.6	< 0.005	< 0.005	—	96.0
Architectural Coatings	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.01	< 0.005	< 0.005	< 0.005	< 0.005	15.1	< 0.005	1.51	1.51	—	37.4	37.4	< 0.005	0.01	0.02	39.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.08	0.13	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.8	15.8	< 0.005	< 0.005	—	15.9

[illegible]

3.35. Architectural Coating (2029) - 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
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[illegible]

Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	< 0.005	1.50	1.50	—	36.5	36.5	< 0.005	0.01	0.02	38.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.13	< 0.005	< 0.005	—	—	< 0.005	< 0.005	—	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.75	2.75	< 0.005	0.27	0.27	—	6.05	6.05	< 0.005	< 0.005	< 0.005	6.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.39	0.23	3.53	0.00	0.00	262	262	0.00	26.2	26.2	—	528	528	0.03	0.02	1.79	537
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	0.42	0.40	0.23	3.26	0.00	0.00	262	262	0.00	26.2	26.2	—	514	514	0.03	0.02	0.05	521
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.26	0.19	2.23	0.00	0.00	183	183	0.00	18.3	18.3	—	355	355	0.02	0.02	0.55	361
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	0.05	0.05	0.03	0.41	0.00	0.00	33.4	33.4	0.00	3.33	3.33	—	58.8	58.8	< 0.005	< 0.005	0.09	59.7

3.36. Architectural Coating (2029) - 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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	51.1	51.1	< 0.005	0.01	0.07	53.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	51.2	51.2	< 0.005	0.01	< 0.005	53.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

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	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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.41	0.00	0.00	0.00	33.4	33.4	0.00	3.33	3.33	—	58.8	58.8	< 0.005	< 0.005	0.09	59.7
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	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	0.00

3.37. Architectural Coating (2030) - 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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	49.9	49.9	< 0.005	0.01	0.07	52.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.38	0.21	2.99	0.00	0.00	0.00	262	262	0.00	26.2	26.2	0.00	505	505	0.03	0.02	0.04	512	0.00	0.00	0.00	0.00
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	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	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.18	2.06	0.00	0.00	0.00	183	183	0.00	18.3	18.3	0.00	349	349	0.02	0.02	0.51	355	0.00	0.00	0.00	0.00
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	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	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.38	0.00	0.00	0.00	33.4	33.4	0.00	3.33	3.33	0.00	57.8	57.8	< 0.005	< 0.005	0.08	58.7	0.00	0.00	0.00	0.00
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	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	0.00	0.00	0.00	0.00	0.00	0.00

3.38. Architectural Coating (2030) - 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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	2.16	—	49.9	49.9	< 0.005	0.01	0.07	52.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	2.16	—	50.0	50.0	< 0.005	0.01	< 0.005	52.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.46	0.69	< 0.005	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	15.1	15.1	1.50	—	35.7	35.7	< 0.005	0.01	0.02	37.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.13	< 0.005	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.75	2.75	0.27	—	5.91	5.91	< 0.005	< 0.005	< 0.005	6.19

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.37	0.21	3.25	0.00	0.00	262	262	0.00	26.2	26.2	26.2	—	518	518	0.03	0.02	1.65	527
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.38	0.21	2.99	0.00	0.00	262	262	0.00	26.2	26.2	26.2	—	505	505	0.03	0.02	0.04	512
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.18	2.06	0.00	0.00	183	183	0.00	18.3	18.3	18.3	—	349	349	0.02	0.02	0.51	355
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.38	0.00	0.00	33.4	33.4	0.00	3.33	3.33	3.33	—	57.8	57.8	< 0.005	< 0.005	0.08	58.7
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	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	0.00

3.39. Architectural Coating (2031) - Unmitigated

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

[illegible]

Off-Road	0.02	0.02	0.65	0.96	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	< 0.005	21.6	< 0.005	2.16	2.16	48.8	48.8	< 0.005	0.01	0.06	51.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	< 0.005	21.6	< 0.005	2.16	2.16	48.9	48.9	< 0.005	0.01	< 0.005	51.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.46	0.69	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	< 0.005	15.1	< 0.005	1.50	1.50	34.9	34.9	< 0.005	0.01	0.02	36.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	15.8	15.8	< 0.005	< 0.005	—	15.8

Architect Coatings	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.75	2.75	2.75	0.27	0.27	—	5.78	< 0.005	< 0.005	< 0.005	< 0.005	6.04
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.33	0.19	2.97	0.00	0.00	0.00	0.00	0.00	262	262	262	26.2	26.2	—	509	0.03	0.02	1.51	518	
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	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	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.36	0.34	0.19	2.74	0.00	0.00	0.00	0.00	0.00	262	262	262	26.2	26.2	—	496	0.03	0.02	0.04	503	
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	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	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.24	0.22	0.15	1.89	0.00	0.00	0.00	0.00	0.00	183	183	183	18.3	18.3	—	343	0.02	0.02	0.47	348	
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	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	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.04	0.04	0.03	0.34	0.00	0.00	0.00	0.00	0.00	33.4	33.4	33.4	3.33	3.33	—	56.8	< 0.005	< 0.005	0.08	57.7	
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	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	0.00	0.00	

3.40. Architectural Coating (2031) - 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	15.8	15.8	15.8
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	2.75	2.75	< 0.005	0.27	0.27	—	5.78	5.78	< 0.005	< 0.005	6.04
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.33	0.19	2.97	0.00	0.00	0.00	262	262	0.00	26.2	26.2	—	509	509	0.03	0.02	1.51
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	0.36	0.34	0.19	2.74	0.00	0.00	0.00	262	262	0.00	26.2	26.2	—	496	496	0.03	0.02	0.04
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	0.24	0.22	0.15	1.89	0.00	0.00	0.00	183	183	0.00	18.3	18.3	—	343	343	0.02	0.02	0.47
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	0.04	0.04	0.03	0.34	0.00	0.00	0.00	33.4	33.4	0.00	3.33	3.33	—	56.8	56.8	< 0.005	< 0.005	0.08
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

3.41. Architectural Coating (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	47.8	47.8	< 0.005	0.01	< 0.005	50.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.29	0.29	< 0.005	0.03	0.03	—	0.65	0.65	< 0.005	< 0.005	< 0.005	0.68
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

3.42. Architectural Coating (2032) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	47.8	47.8	< 0.005	0.01	< 0.005	50.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.29	0.29	< 0.005	0.03	0.03	—	0.65	0.65	< 0.005	< 0.005	< 0.005	0.68
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.30	0.30	< 0.005	< 0.005	—	0.30

[illegible]

3.4.3. Linear, Grubbing & Land Clearing (2026) - Unmitigated

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

[illegible]

Off-Road Equipment	0.13	2.33	7.85	0.01	0.02	—	0.02	—	0.02	—	1,122	1,122	0.05	0.01	—	1,126
Dust From Material Movement	—	—	—	—	—	1.06	1.06	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	< 0.005	< 0.005	21.6	21.6	2.16	2.16	—	54.2	54.2	< 0.005	0.01	0.09	56.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.42	1.42	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	203	203	0.01	< 0.005	—	204
Dust From Material Movement	—	—	—	—	—	0.19	0.19	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.81	3.81	0.38	0.38	—	9.81	9.81	< 0.005	< 0.005	0.01	10.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	33.6	33.6	< 0.005	< 0.005	—	33.7
Dust From Material Movement	—	—	—	—	—	0.03	0.03	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.70	0.70	0.07	0.07	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.08	1.14	0.00	0.00	66.7	66.7	0.00	6.67	6.67	—	142	142	0.01	0.01	0.57	144		
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	0.02	0.02	0.02	0.18	0.00	0.00	11.8	11.8	0.00	1.18	1.18	—	24.1	24.1	< 0.005	< 0.005	0.04	24.5		
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		
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	2.15	2.15	0.00	0.21	0.21	—	3.99	3.99	< 0.005	< 0.005	0.01	4.06		
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		

3.44. Linear, Grubbing & Land Clearing (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	0.13	0.13	2.33	7.85	0.01	0.02	—	0.02	0.02	—	0.02	—	1,122	1,122	0.05	0.01	—	1,126

Dust From Material Movement	—	—	—	—	—	1.06	1.06	—	—	0.11	0.11	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.16	2.16	—	54.2	54.2	< 0.005	0.01	0.09	56.9	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.02	0.02	0.42	1.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	203	203	0.01	< 0.005	—	204	
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—	
Onsite truck	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	3.81	3.81	< 0.005	0.38	0.38	—	9.81	9.81	< 0.005	< 0.005	0.01	10.3	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	< 0.005	< 0.005	0.08	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.6	33.6	< 0.005	< 0.005	—	33.7	
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—	
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.70	0.70	< 0.005	0.07	0.07	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.13	0.12	0.08	1.14	0.00	0.00	66.7	66.7	—	6.67	6.67	—	142	142	0.01	0.01	0.57	144	

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	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	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	11.8	11.8	1.18	1.18	—	24.1	< 0.005	< 0.005	0.04	24.5	0.00	0.00	0.00
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	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	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.00	0.00	2.15	2.15	0.21	0.21	0.21	—	3.99	< 0.005	< 0.005	0.01	4.06	0.00	0.00	0.00
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	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	0.00	0.00	0.00	0.00

3.45. Linear, Grading & Excavation (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	1.99	1.99	16.9	114	0.18	0.37	—	0.37	0.37	—	0.37	—	19,970	19,970	0.81	0.16	—	20,039					
Dust From Material Movement	—	—	—	—	—	—	9.55	9.55	—	1.03	1.03	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.2	54.2	< 0.005	0.01	0.09	56.9					

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.63	0.58	0.40	5.72	0.00	0.00	333	333	0.00	33.3	33.3	—	708	708	0.04	0.03	2.83	720
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	< 0.005	0.55	0.55	—	47.5	47.5	< 0.005	0.01	0.11	49.6
Hauling	0.01	0.01	0.84	0.10	0.01	0.01	55.8	55.8	0.01	5.59	5.60	—	530	530	< 0.005	0.08	0.94	556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.60	0.40	5.26	0.00	0.00	333	333	0.00	33.3	33.3	—	690	690	0.04	0.03	0.07	699
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	5.53	5.53	< 0.005	0.55	0.55	—	47.5	47.5	< 0.005	0.01	< 0.005	49.5
Hauling	0.01	0.01	0.85	0.10	0.01	0.01	55.8	55.8	0.01	5.59	5.60	—	530	530	< 0.005	0.08	0.02	555
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	0.88	0.00	0.00	57.0	57.0	0.00	5.70	5.70	—	117	117	0.01	< 0.005	0.21	119
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.94	0.94	< 0.005	0.09	0.09	—	8.32	8.32	< 0.005	< 0.005	0.01	8.69
Hauling	< 0.005	< 0.005	0.15	0.02	< 0.005	< 0.005	9.54	9.54	< 0.005	0.96	0.96	—	93.0	93.0	< 0.005	0.01	0.07	97.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	0.00	10.4	10.4	0.00	1.04	1.04	—	19.4	19.4	< 0.005	< 0.005	0.04	19.7
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17	0.17	< 0.005	0.02	0.02	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.44
Hauling	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	1.74	1.74	< 0.005	0.17	0.17	—	15.4	15.4	< 0.005	< 0.005	0.01	16.1

3.46. Linear, Grading & Excavation (2026) - Mitigated

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

[illegible]

Off-Road Equipment	1.99	1.99	16.9	114	0.18	0.37	—	0.37	—	0.37	—	19,970	19,970	0.81	0.16	—	20,039
Dust From Material Movement	—	—	—	—	—	—	9.55	1.03	1.03	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	2.16	2.16	< 0.005	—	54.2	54.2	< 0.005	0.01	0.09	56.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.99	1.99	16.9	114	0.18	0.37	—	0.37	—	0.37	—	19,970	19,970	0.81	0.16	—	20,039
Dust From Material Movement	—	—	—	—	—	—	9.55	1.03	1.03	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	2.16	2.16	< 0.005	—	54.3	54.3	< 0.005	0.01	< 0.005	56.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.35	2.97	20.0	0.03	0.07	—	0.07	—	0.07	—	3,502	3,502	0.14	0.03	—	3,514
Dust From Material Movement	—	—	—	—	—	—	1.67	0.18	0.18	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	3.70	0.37	0.37	< 0.005	—	9.51	9.51	< 0.005	< 0.005	0.01	9.97
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.06	0.54	3.65	0.01	0.01	—	0.01	0.01	—	0.01	—	580	580	0.02	< 0.005	—	582
Dust From Material Movement	—	—	—	—	—	0.31	0.31	0.03	0.03	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.67	0.68	< 0.005	0.07	0.07	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.65
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.63	0.58	0.40	5.72	0.00	333	333	333	0.00	33.3	33.3	—	708	708	0.04	0.03	2.83	720
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	5.53	5.53	5.53	< 0.005	0.55	0.55	—	47.5	47.5	< 0.005	0.01	0.11	49.6
Hauling	0.01	0.01	0.84	0.10	0.01	55.8	55.8	55.8	0.01	5.59	5.60	—	530	530	< 0.005	0.08	0.94	556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.60	0.40	5.26	0.00	333	333	333	0.00	33.3	33.3	—	690	690	0.04	0.03	0.07	699
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	5.53	5.53	5.53	< 0.005	0.55	0.55	—	47.5	47.5	< 0.005	0.01	< 0.005	49.5
Hauling	0.01	0.01	0.85	0.10	0.01	55.8	55.8	55.8	0.01	5.59	5.60	—	530	530	< 0.005	0.08	0.02	555
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	0.88	0.00	57.0	57.0	57.0	0.00	5.70	5.70	—	117	117	0.01	< 0.005	0.21	119
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.94	0.94	0.94	< 0.005	0.09	0.09	—	8.32	8.32	< 0.005	< 0.005	0.01	8.69
Hauling	< 0.005	< 0.005	0.15	0.02	< 0.005	9.54	9.54	9.54	< 0.005	0.96	0.96	—	93.0	93.0	< 0.005	0.01	0.07	97.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	10.4	10.4	10.4	0.00	1.04	1.04	—	19.4	19.4	< 0.005	< 0.005	0.04	19.7
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17	0.17	0.17	< 0.005	0.02	0.02	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.44
Hauling	< 0.005	< 0.005	0.03	< 0.005	< 0.005	1.74	1.74	1.74	< 0.005	0.17	0.17	—	15.4	15.4	< 0.005	< 0.005	0.01	16.1

3.47. Linear, Drainage, Utilities, & Sub-Grade (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.47	1.47	9.07	83.4	0.15	0.29	—	0.29	0.29	—	0.29	—	15,741	15,741	0.64	0.13	—	15,795
Dust From Material Movement	—	—	—	—	—	—	7.95	7.95	—	0.86	0.86	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.3	54.3	< 0.005	0.01	< 0.005	56.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	1.10	10.1	0.02	0.04	—	0.04	0.04	—	0.04	—	1,910	1,910	0.08	0.02	—	1,916
Dust From Material Movement	—	—	—	—	—	—	0.97	0.97	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.56	2.56	< 0.005	0.26	0.26	—	6.58	6.58	< 0.005	< 0.005	< 0.005	6.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	0.20	1.85	< 0.005	0.01	—	0.01	—	0.01	—	316	316	0.01	< 0.005	—	317
Dust From Material Movement	—	—	—	—	—	—	0.18	0.02	0.02	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.47	0.05	0.05	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.14
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.43	0.29	3.76	0.00	0.00	238	23.8	23.8	0.00	—	493	493	0.03	0.02	0.05	500
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.44	0.00	0.00	28.2	2.82	2.82	0.00	—	57.8	57.8	< 0.005	< 0.005	0.11	58.7
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	5.14	0.51	0.51	0.00	—	9.57	9.57	< 0.005	< 0.005	0.02	9.72
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
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

3.48. Linear, Drainage, Utilities, & Sub-Grade (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.47	1.47	9.07	83.4	0.15	0.29	—	0.29	0.29	—	0.29	—	15,741	15,741	0.64	0.13	—	15,795
Dust From Material Movement	—	—	—	—	—	—	7.95	7.95	—	0.86	0.86	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.3	54.3	< 0.005	0.01	< 0.005	56.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	1.10	10.1	0.02	0.04	—	0.04	0.04	—	0.04	—	1,910	1,910	0.08	0.02	—	1,916
Dust From Material Movement	—	—	—	—	—	—	0.97	0.97	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.56	2.56	< 0.005	0.26	0.26	—	6.58	6.58	< 0.005	< 0.005	< 0.005	6.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.20	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	316	316	0.01	< 0.005	—	317

Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.02	0.02	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.47	0.47	< 0.005	0.05	0.05	—	1.09	1.09	< 0.005	< 0.005	1.14
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.43	0.29	3.76	0.00	0.00	238	238	0.00	23.8	23.8	—	493	493	0.03	0.02	500
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.44	0.00	0.00	28.2	28.2	0.00	2.82	2.82	—	57.8	57.8	< 0.005	< 0.005	58.7
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	5.14	5.14	0.00	0.51	0.51	—	9.57	9.57	< 0.005	< 0.005	9.72
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
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

3.49. Linear, Drainage, Utilities, & Sub-Grade (2027) - 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.59	5.39	0.01	0.02	—	0.02	—	0.02	—	0.06	0.02	—	923	923	0.04	0.01	—
Dust From Material Movement	—	—	—	—	—	—	0.51	0.51	—	0.06	0.06	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.36	1.36	< 0.005	0.14	0.14	—	—	3.13	3.13	< 0.005	< 0.005	< 0.005	3.28
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.40	0.25	3.76	0.00	0.00	238	238	0.00	23.8	23.8	—	—	497	497	0.03	0.02	1.89	505
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	0.43	0.41	0.25	3.47	0.00	0.00	238	238	0.00	23.8	23.8	—	—	484	484	0.03	0.02	0.05	490
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	0.14	0.13	0.10	1.18	0.00	0.00	82.2	82.2	0.00	8.22	8.22	—	—	166	166	0.01	0.01	0.29	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.21	0.00	0.00	15.0	15.0	0.00	1.50	1.50	—	—	27.4	27.4	< 0.005	< 0.005	0.05	27.9
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

3.50. Linear, Drainage, Utilities, & Sub-Grade (2027) - 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	1.47	1.47	9.07	83.4	0.15	0.29	—	0.29	0.29	—	0.29	—	15,739	15,739	0.64	0.13	—	15,793
Dust From Material Movement	—	—	—	—	—	—	7.95	7.95	—	0.86	0.86	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	0.09	55.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.47	1.47	9.07	83.4	0.15	0.29	—	0.29	0.29	—	0.29	—	15,739	15,739	0.64	0.13	—	15,793
Dust From Material Movement	—	—	—	—	—	—	7.95	7.95	—	0.86	0.86	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	53.3	53.3	< 0.005	0.01	< 0.005	55.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.52	3.21	29.6	0.05	0.10	—	0.10	0.10	—	0.10	—	5,575	5,575	0.23	0.05	—	5,594

Dust From Material Movement	—	—	—	—	—	2.82	2.82	—	—	0.30	0.30	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	7.47	7.47	18.9	18.9	0.75	—	18.9	18.9	< 0.005	< 0.005	0.01	19.8	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.59	5.39	0.01	0.02	—	0.02	923	923	0.02	—	923	923	0.04	0.01	—	926	—
Dust From Material Movement	—	—	—	—	—	0.51	0.51	—	—	0.06	0.06	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	1.36	1.36	—	3.13	3.13	0.14	—	3.13	3.13	< 0.005	< 0.005	< 0.005	3.28	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.40	0.25	3.76	0.00	0.00	238	238	497	497	23.8	—	497	497	0.03	0.02	1.89	505	—
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	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.41	0.25	3.47	0.00	0.00	238	238	484	484	23.8	—	484	484	0.03	0.02	0.05	490	—
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	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.10	1.18	0.00	0.00	82.2	82.2	166	166	8.22	—	166	166	0.01	0.01	0.29	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	—

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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.21	0.00	0.00	15.0	15.0	0.00	1.50	1.50	27.4	27.4	< 0.005	< 0.005	0.05	27.9	0.00	0.00
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	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	0.00	0.00

3.51. Linear, 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	0.31	0.31	3.83	20.7	0.03	0.05	—	0.05	0.05	—	0.05	—	2,955	2,955	0.12	0.02	—	2,965
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	54.2	54.2	< 0.005	0.01	0.09	56.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.45	2.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	348	348	0.01	< 0.005	—	349
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.48	2.49	< 0.005	0.25	0.25	—	6.39	6.39	< 0.005	< 0.005	< 0.005	6.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.08	0.44	< 0.005	< 0.005	< 0.005	—	< 0.005	—	57.6	57.6	< 0.005	< 0.005	—	57.8
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.45	0.05	0.05	< 0.005	—	1.06	1.06	< 0.005	< 0.005	< 0.005	1.11
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	0.16	2.29	0.00	0.00	133	13.3	13.3	—	283	283	0.02	0.01	1.13	288
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.24	0.00	0.00	15.3	1.53	1.53	—	31.4	31.4	< 0.005	< 0.005	0.06	31.9
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.04	0.00	0.00	2.80	0.28	0.28	—	5.20	5.20	< 0.005	< 0.005	0.01	5.29
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
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

3.52. Linear, 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	0.31	0.31	3.83	20.7	0.03	0.05	—	—	—	0.05	—	2.16	—	—	2,955	0.12	0.02	—	2,965	
Onsite truck	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	21.6	21.6	< 0.005	2.16	2.16	—	—	—	54.2	< 0.005	0.01	0.09	56.9	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.04	0.04	0.45	2.44	< 0.005	0.01	—	—	0.01	—	0.01	—	—	—	348	0.01	< 0.005	—	349	
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.48	2.49	< 0.005	0.25	0.25	—	—	—	6.39	< 0.005	< 0.005	< 0.005	6.70	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.01	0.01	0.08	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	—	57.6	< 0.005	< 0.005	—	57.8	
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.45	0.45	< 0.005	0.05	0.05	—	—	—	1.06	< 0.005	< 0.005	< 0.005	1.11	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.25	0.23	0.16	2.29	0.00	0.00	133	133	0.00	13.3	13.3	—	—	—	283	0.02	0.01	1.13	288	
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	
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	

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.24	0.00	0.00	0.00	15.3	15.3	0.00	1.53	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.04	0.00	0.00	0.00	2.80	2.80	0.00	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	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	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	39.3	38.0	14.7	120	0.15	0.19	12.3	12.5	0.18	3.12	3.30	—	15,730	15,730	1.61	1.08	52.6	16,146
Hospital	1.54	1.47	0.78	6.30	0.01	0.01	0.78	0.79	0.01	0.20	0.21	—	968	968	0.07	0.06	3.35	989
Medical Office Building	4.83	4.61	2.44	19.7	0.03	0.04	2.44	2.48	0.03	0.62	0.65	—	3,029	3,029	0.22	0.17	10.5	3,097

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	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	8.59	8.10	5.55	44.7	0.07	0.09	6.15	6.24	0.08	1.56	1.65	—	7,515	7,515	0.45	0.39	26.4	7,667	
Condo/Townhouse	0.76	0.72	0.49	3.97	0.01	0.01	0.55	0.55	0.01	0.14	0.15	—	667	667	0.04	0.03	2.34	681	
High Turnover (Sit Down Restaurant)	17.6	16.8	8.88	71.9	0.11	0.13	8.89	9.02	0.12	2.26	2.38	—	11,036	11,036	0.82	0.63	38.2	11,283	
Fast Food Restaurant w/o Drive Thru	8.58	8.20	4.33	35.1	0.05	0.06	4.34	4.40	0.06	1.10	1.16	—	5,385	5,385	0.40	0.31	18.6	5,505	
Fast Food Restaurant with Drive Thru	39.5	37.7	19.9	161	0.24	0.29	20.0	20.3	0.28	5.08	5.36	—	24,788	24,788	1.84	1.42	85.7	25,342	
Hotel	3.86	3.69	1.95	15.8	0.02	0.03	1.95	1.98	0.03	0.50	0.52	—	2,426	2,426	0.18	0.14	8.39	2,480	
Arena	0.40	0.38	0.20	1.62	< 0.005	< 0.005	0.20	0.20	< 0.005	0.05	0.05	—	249	249	0.02	0.01	0.86	254	
Convenience Market with Gas Pumps	21.5	20.6	10.9	88.1	0.13	0.16	10.9	11.1	0.15	2.77	2.92	—	13,522	13,522	1.00	0.77	46.7	13,825	

Free-Standing Discount store	16.6	16.1	6.51	53.0	0.07	0.09	5.59	5.68	0.08	1.42	1.51	—	7,132	7,132	0.69	0.48	24.0	7,315
Strip Mall	5.08	4.85	2.56	20.7	0.03	0.04	2.57	2.60	0.04	0.65	0.69	—	3,186	3,186	0.24	0.18	11.0	3,257
Total	168	161	79.3	642	0.94	1.14	76.6	77.7	1.07	19.5	20.6	—	95,631	95,631	7.59	5.67	329	97,840
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	40.4	39.1	14.9	116	0.15	0.19	12.3	12.5	0.18	3.12	3.30	—	15,454	15,454	1.64	1.09	1.36	15,821
Hospital	1.58	1.51	0.78	6.03	0.01	0.01	0.78	0.79	0.01	0.20	0.21	—	950	950	0.07	0.06	0.09	969
Medical Office Building	4.95	4.73	2.46	18.9	0.03	0.04	2.44	2.48	0.03	0.62	0.65	—	2,974	2,974	0.23	0.17	0.27	3,032
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
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	8.79	8.30	5.59	42.5	0.07	0.09	6.15	6.24	0.08	1.56	1.65	—	7,375	7,375	0.46	0.39	0.68	7,503
Condo/Townhouse	0.78	0.74	0.50	3.77	0.01	0.01	0.55	0.55	0.01	0.14	0.15	—	655	655	0.04	0.03	0.06	666
High Turnover (Sit Down Restaurant)	18.0	17.2	8.95	68.8	0.11	0.13	8.89	9.02	0.12	2.26	2.38	—	10,835	10,835	0.83	0.63	0.99	11,046

Fast Food Restaurant w/o Drive Thru	8.80	8.42	4.37	33.6	0.05	0.06	4.34	4.40	0.06	1.10	1.16	—	5,287	5,287	0.41	0.31	0.48	5,390
Fast Food Restaurant with Drive Thru	40.5	38.7	20.1	154	0.24	0.29	20.0	20.3	0.28	5.08	5.36	—	24,337	24,337	1.87	1.42	2.22	24,810
Hotel	3.96	3.79	1.97	15.1	0.02	0.03	1.95	1.98	0.03	0.50	0.52	—	2,381	2,381	0.18	0.14	0.22	2,428
Arena	0.41	0.39	0.20	1.55	< 0.005	< 0.005	0.20	0.20	< 0.005	0.05	0.05	—	244	244	0.02	0.01	0.02	249
Convenience Market with Gas Pumps	22.1	21.1	11.0	84.3	0.13	0.16	10.9	11.1	0.15	2.77	2.92	—	13,277	13,277	1.02	0.78	1.21	13,535
Free-Standing Discount store	17.1	16.5	6.57	51.3	0.07	0.09	5.59	5.68	0.08	1.42	1.51	—	7,006	7,006	0.71	0.48	0.62	7,167
Strip Mall	5.21	4.98	2.58	19.9	0.03	0.04	2.57	2.60	0.04	0.65	0.69	—	3,128	3,128	0.24	0.18	0.29	3,188
Total	173	166	79.9	616	0.92	1.14	76.6	77.7	1.07	19.5	20.6	—	93,904	93,904	7.71	5.70	8.52	95,803
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	5.25	5.05	2.23	17.4	0.02	0.03	1.63	1.66	0.02	0.41	0.44	—	1,846	1,846	0.24	0.15	2.76	1,898
Hospital	0.24	0.23	0.14	1.03	< 0.005	< 0.005	0.13	0.13	< 0.005	0.03	0.03	—	139	139	0.01	0.01	0.22	143
Medical Office Building	0.62	0.59	0.37	2.69	< 0.005	< 0.005	0.33	0.34	< 0.005	0.09	0.09	—	363	363	0.03	0.02	0.57	372
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

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	1.40	1.32	1.05	7.44	0.01	0.02	1.06	1.08	0.01	0.27	0.28	—	1,134	1,134	0.08	0.06	1.79	1,157						
Condo/Townhouse	0.12	0.11	0.09	0.62	<0.005	<0.005	0.09	0.09	<0.005	0.02	0.02	—	94.8	94.8	0.01	0.01	0.15	96.7						
High Turnover (Sit Down Restaurant)	2.33	2.23	1.07	8.23	0.01	0.01	0.84	0.85	0.01	0.21	0.23	—	936	936	0.11	0.07	1.42	961						
Fast Food Restaurant w/o Drive Thru	0.88	0.84	0.52	3.81	0.01	0.01	0.47	0.48	0.01	0.12	0.13	—	514	514	0.04	0.03	0.80	526						
Fast Food Restaurant with Drive Thru	5.00	4.80	2.22	17.2	0.02	0.03	1.68	1.70	0.03	0.43	0.45	—	1,887	1,887	0.23	0.14	2.84	1,938						
Hotel	0.63	0.60	0.37	2.73	<0.005	<0.005	0.34	0.34	<0.005	0.09	0.09	—	368	368	0.03	0.02	0.57	377						
Arena	0.07	0.06	0.04	0.29	<0.005	<0.005	0.04	0.04	<0.005	0.01	0.01	—	39.5	39.5	<0.005	<0.005	0.06	40.4						
Convenience Market with Gas Pumps	3.34	3.22	1.34	10.6	0.01	0.02	0.92	0.94	0.01	0.24	0.25	—	1,059	1,059	0.15	0.09	1.56	1,090						
Free-Standing Discount store	2.28	2.18	1.07	8.19	0.01	0.01	0.85	0.86	0.01	0.22	0.23	—	947	947	0.11	0.07	1.44	972						
Strip Mall	0.79	0.75	0.47	3.43	0.01	0.01	0.43	0.43	0.01	0.11	0.11	—	463	463	0.04	0.03	0.72	474						

Total	23.0	22.0	11.0	83.7	0.11	0.14	8.80	8.94	0.13	2.24	2.37	—	9,790	9,790	1.08	0.71	14.9	10,042
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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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	36.8	35.6	13.8	112	0.14	0.18	11.5	11.7	0.17	2.92	3.09	—	14,723	14,723	1.51	1.01	49.3	15,112
Hospital	1.44	1.38	0.73	5.90	0.01	0.01	0.73	0.74	0.01	0.19	0.20	—	906	906	0.07	0.05	3.13	926
Medical Office Building	4.52	4.32	2.28	18.5	0.03	0.03	2.28	2.32	0.03	0.58	0.61	—	2,835	2,835	0.21	0.16	9.80	2,899
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
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	8.04	7.58	5.19	41.9	0.07	0.08	5.76	5.84	0.08	1.46	1.54	—	7,034	7,034	0.42	0.36	24.7	7,177
Condo/Townhouse	0.71	0.67	0.46	3.72	0.01	0.01	0.51	0.52	0.01	0.13	0.14	—	624	624	0.04	0.03	2.19	637
High Turnover (Sit Down Restaurant)	16.5	15.7	8.31	67.3	0.10	0.12	8.32	8.44	0.11	2.12	2.23	—	10,330	10,330	0.77	0.59	35.7	10,561

Fast Food Restaurant w/o Drive Thru	8.03	7.67	4.06	32.8	0.05	0.06	4.06	4.12	0.06	1.03	1.09	—	5,040	5,040	0.37	0.29	17.4	5,153
Fast Food Restaurant with Drive Thru	37.0	35.3	18.7	151	0.23	0.27	18.7	19.0	0.26	4.76	5.01	—	23,202	23,202	1.72	1.33	80.2	23,720
Hotel	3.62	3.46	1.83	14.8	0.02	0.03	1.83	1.86	0.03	0.47	0.49	—	2,270	2,270	0.17	0.13	7.85	2,321
Arena	0.37	0.35	0.19	1.52	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	233	233	0.02	0.01	0.80	238
Convenience Market with Gas Pumps	20.2	19.3	10.2	82.4	0.12	0.15	10.2	10.3	0.14	2.59	2.73	—	12,657	12,657	0.94	0.72	43.8	12,940
Free-Standing Discount store	15.6	15.0	6.10	49.6	0.07	0.08	5.24	5.32	0.08	1.33	1.41	—	6,675	6,675	0.65	0.45	22.5	6,847
Strip Mall	4.75	4.54	2.40	19.4	0.03	0.04	2.40	2.44	0.03	0.61	0.64	—	2,982	2,982	0.22	0.17	10.3	3,048
Total	157	151	74.2	601	0.88	1.06	71.7	72.7	1.00	18.2	19.2	—	89,511	89,511	7.11	5.31	308	91,578
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	37.8	36.6	13.9	109	0.14	0.18	11.5	11.7	0.17	2.92	3.09	—	14,465	14,465	1.54	1.02	1.28	14,809
Hospital	1.48	1.42	0.73	5.64	0.01	0.01	0.73	0.74	0.01	0.19	0.20	—	889	889	0.07	0.05	0.08	907
Medical Office Building	4.63	4.43	2.30	17.7	0.03	0.03	2.28	2.32	0.03	0.58	0.61	—	2,784	2,784	0.21	0.16	0.25	2,838

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	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	8.23	7.77	5.24	39.7	0.07	0.08	5.76	5.84	0.08	1.46	1.54	—	6,903	6,903	0.43	0.36	0.64	7,023					
Condo/Townhouse	0.73	0.69	0.46	3.53	0.01	0.01	0.51	0.52	0.01	0.13	0.14	—	613	613	0.04	0.03	0.06	623					
High Turnover (Sit Down Restaurant)	16.9	16.1	8.38	64.4	0.10	0.12	8.32	8.44	0.11	2.12	2.23	—	10,142	10,142	0.78	0.59	0.93	10,339					
Fast Food Restaurant w/o Drive Thru	8.24	7.88	4.09	31.4	0.05	0.06	4.06	4.12	0.06	1.03	1.09	—	4,949	4,949	0.38	0.29	0.45	5,045					
Fast Food Restaurant with Drive Thru	37.9	36.3	18.8	145	0.22	0.27	18.7	19.0	0.26	4.76	5.01	—	22,780	22,780	1.75	1.33	2.08	23,222					
Hotel	3.71	3.55	1.84	14.1	0.02	0.03	1.83	1.86	0.03	0.47	0.49	—	2,229	2,229	0.17	0.13	0.20	2,272					
Arena	0.38	0.36	0.19	1.45	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	229	229	0.02	0.01	0.02	233					
Convenience Market with Gas Pumps	20.7	19.8	10.3	78.9	0.12	0.15	10.2	10.3	0.14	2.59	2.73	—	12,427	12,427	0.95	0.73	1.13	12,668					

Free-Standing Discount store	16.0	15.5	6.15	48.0	0.06	0.08	5.24	5.32	0.08	1.33	1.41	—	6,558	6,558	0.66	0.45	0.58	6,708
Strip Mall	4.87	4.66	2.42	18.6	0.03	0.04	2.40	2.44	0.03	0.61	0.64	—	2,927	2,927	0.22	0.17	0.27	2,984
Total	162	155	74.8	577	0.86	1.06	71.7	72.7	1.00	18.2	19.2	—	87,894	87,894	7.22	5.33	7.98	89,672
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	4.92	4.73	2.09	16.3	0.02	0.02	1.52	1.55	0.02	0.39	0.41	—	1,727	1,727	0.22	0.14	2.58	1,776
Hospital	0.22	0.21	0.13	0.97	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	131	131	0.01	0.01	0.20	133
Medical Office Building	0.58	0.55	0.34	2.52	< 0.005	< 0.005	0.31	0.32	< 0.005	0.08	0.08	—	340	340	0.03	0.02	0.53	348
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
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	1.31	1.23	0.99	6.96	0.01	0.01	0.99	1.01	0.01	0.25	0.27	—	1,061	1,061	0.07	0.06	1.68	1,082
Condo/Townhouse	0.11	0.10	0.08	0.58	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	88.7	88.7	0.01	0.01	0.14	90.5
High Turnover (Sit Down Restaurant)	2.18	2.09	1.00	7.71	0.01	0.01	0.78	0.80	0.01	0.20	0.21	—	876	876	0.10	0.06	1.33	899

Fast Food Restaurant w/o Drive Thru	0.82	0.78	0.49	3.57	0.01	0.01	0.44	0.45	0.01	0.11	0.12	—	481	481	0.04	0.03	0.75	492
Fast Food Restaurant with Drive Thru	4.68	4.49	2.08	16.1	0.02	0.02	1.57	1.60	0.02	0.40	0.42	—	1,766	1,766	0.21	0.13	2.66	1,814
Hotel	0.59	0.56	0.35	2.56	< 0.005	< 0.005	0.32	0.32	< 0.005	0.08	0.09	—	345	345	0.03	0.02	0.54	353
Arena	0.06	0.06	0.04	0.27	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	37.0	37.0	< 0.005	< 0.005	0.06	37.8
Convenience Market with Gas Pumps	3.13	3.02	1.25	9.91	0.01	0.01	0.86	0.88	0.01	0.22	0.23	—	991	991	0.14	0.08	1.46	1,020
Free-Standing Discount store	2.13	2.04	1.00	7.67	0.01	0.01	0.80	0.81	0.01	0.20	0.21	—	886	886	0.10	0.06	1.34	909
Strip Mall	0.74	0.71	0.44	3.21	< 0.005	0.01	0.40	0.40	0.01	0.10	0.11	—	434	434	0.04	0.03	0.67	443
Total	21.5	20.6	10.3	78.3	0.10	0.13	8.24	8.37	0.12	2.10	2.22	—	9,164	9,164	1.01	0.66	13.9	9,400

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Regional	—	—	—	—	—	—	—	—	—	—	—	—	—	—	692	692	0.11	0.01	—	699
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,541	1,541	0.25	0.03	—	1,556
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	795	795	0.13	0.02	—	803
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,050	1,050	0.17	0.02	—	1,060
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58.7	58.7	0.01	< 0.005	—	59.3
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	421	421	0.07	0.01	—	425
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.4	32.4	0.01	< 0.005	—	32.7
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	491	491	0.08	0.01	—	496
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.1	49.1	0.01	< 0.005	—	49.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	256	256	0.04	0.01	—	258
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	173	173	0.03	< 0.005	—	175
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.8	34.8	0.01	< 0.005	—	35.1

Convenience	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161	0.03	< 0.005	—	162
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	—	189	189	0.03	< 0.005	—	191
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	86.7	86.7	0.01	< 0.005	—	87.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,032	6,032	0.98	0.12	—	6,091
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	692	692	0.11	0.01	—	699
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,541	1,541	0.25	0.03	—	1,556
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	795	795	0.13	0.02	—	803
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,050	1,050	0.17	0.02	—	1,060
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58.7	58.7	0.01	< 0.005	—	59.3
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	421	421	0.07	0.01	—	425
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.4	32.4	0.01	< 0.005	—	32.7

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	132	132	0.02	< 0.005	—	133
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.72	9.72	< 0.005	< 0.005	—	9.82
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.7	69.7	0.01	< 0.005	—	70.4
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.36	5.36	< 0.005	< 0.005	—	5.41
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.4	81.4	0.01	< 0.005	—	82.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.14	8.14	< 0.005	< 0.005	—	8.22
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42.3	42.3	0.01	< 0.005	—	42.7
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.7	28.7	< 0.005	< 0.005	—	29.0
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.76	5.76	< 0.005	< 0.005	—	5.81
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.6	26.6	< 0.005	< 0.005	—	26.9

Free-Station Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	31.4	31.4	0.01	< 0.005	—	31.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	14.4	14.4	< 0.005	< 0.005	—	14.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	999	999	0.16	0.02	—	1,008

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	692	692	0.11	0.01	—	699
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	1,541	1,541	0.25	0.03	—	1,556
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	795	795	0.13	0.02	—	803
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,050	1,050	0.17	0.02	—	1,060
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	58.7	58.7	0.01	< 0.005	—	59.3
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	422	422	0.07	0.01	—	426
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.01	—	496
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	< 0.005	—	49.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.01	—	258
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	< 0.005	—	175
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	< 0.005	—	35.1
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	< 0.005	—	162
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	< 0.005	—	191
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	< 0.005	—	87.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.98	0.12	—	6,094
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.01	—	699

Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,541	1,541	0.25	0.03	—	1,556
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	795	795	0.13	0.02	—	803
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,050	1,050	0.17	0.02	—	1,060
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58.7	58.7	0.01	< 0.005	—	59.3
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	422	422	0.07	0.01	—	426
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33.7	33.7	0.01	< 0.005	—	34.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	491	491	0.08	0.01	—	496
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.1	49.1	0.01	< 0.005	—	49.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	256	256	0.04	0.01	—	258
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	173	173	0.03	< 0.005	—	175
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.8	34.8	0.01	< 0.005	—	35.1

Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	161	161	0.03	< 0.005	—	162
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	189	189	0.03	< 0.005	—	191
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	86.7	86.7	0.01	< 0.005	—	87.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,034	6,034	0.98	0.12	—	6,094
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	115	115	0.02	< 0.005	—	116
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	255	255	0.04	0.01	—	258
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	132	132	0.02	< 0.005	—	133
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.03	< 0.005	—	175
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.72	9.72	< 0.005	< 0.005	—	9.82
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.01	< 0.005	—	70.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.57	5.57	< 0.005	< 0.005	—	5.63

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	81.4	81.4	0.01	< 0.005	—	82.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	8.14	8.14	< 0.005	< 0.005	—	8.22
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	42.3	42.3	0.01	< 0.005	—	42.7
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	28.7	28.7	< 0.005	< 0.005	—	29.0
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	5.76	5.76	< 0.005	< 0.005	—	5.81
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	26.6	26.6	< 0.005	< 0.005	—	26.9
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	31.4	31.4	0.01	< 0.005	—	31.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	14.4	14.4	< 0.005	< 0.005	—	14.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	999	999	0.16	0.02	—	1,009

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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.03	0.01	0.26	0.22	< 0.005	0.02	—	< 0.005	0.02	—	0.02	—	306	306	0.03	< 0.005	—	306	
Hospital	0.16	0.08	1.42	1.20	0.01	0.11	—	0.11	0.11	—	0.11	—	1,698	1,698	0.15	< 0.005	—	1,703	
Medical Office Building	0.05	0.02	0.42	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	—	504	504	0.04	< 0.005	—	506	
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	
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00	
Apartments Mid Rise	0.08	0.04	0.67	0.28	< 0.005	0.05	—	0.05	0.05	—	0.05	—	849	849	0.08	< 0.005	—	852	
Condo/Townhouse	0.01	0.01	0.09	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	116	116	0.01	< 0.005	—	117	
High Turnover (Sit Down Restaurant)	0.08	0.04	0.71	0.60	< 0.005	0.05	—	0.05	0.05	—	0.05	—	850	850	0.08	< 0.005	—	852	
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.0	85.0	0.01	< 0.005	—	85.2	

Fast Food Restaurant with Drive Thru	0.04	0.02	0.37	0.31	< 0.005	0.03	—	0.03	—	0.03	—	442	442	0.04	< 0.005	—	443
Hotel	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	—	0.03	—	449	449	0.04	< 0.005	—	451
Arena	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	—	0.01	—	81.8	81.8	0.01	< 0.005	—	82.0
Convenience Market with Gas Pumps	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	52.0	52.0	< 0.005	< 0.005	—	52.2
Free-Standing Discount store	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	—	0.01	—	83.6	83.6	0.01	< 0.005	—	83.8
Strip Mall	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	38.3	38.3	< 0.005	< 0.005	—	38.4
Total	0.51	0.26	4.61	3.55	0.03	0.35	—	0.35	—	0.35	—	5,555	5,555	0.49	0.01	—	5,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	—	0.02	—	306	306	0.03	< 0.005	—	306
Hospital	0.16	0.08	1.42	1.20	0.01	0.11	—	0.11	—	0.11	—	1,698	1,698	0.15	< 0.005	—	1,703
Medical Office Building	0.05	0.02	0.42	0.36	< 0.005	0.03	—	0.03	—	0.03	—	504	504	0.04	< 0.005	—	506
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

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	0.08	0.04	0.67	0.28	< 0.005	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Condo/Townhouse	0.01	0.01	0.09	0.04	< 0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
High Turnover (Sit Down Restaurant)	0.08	0.04	0.71	0.60	< 0.005	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Fast Food Restaurant with Drive Thru	0.04	0.02	0.37	0.31	< 0.005	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Hotel	0.04	0.02	0.38	0.32	< 0.005	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Arena	0.01	< 0.005	0.07	0.06	< 0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Convenience Market with Gas Pumps	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Free-Standing Discount store	0.01	< 0.005	0.07	0.06	< 0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Strip Mall	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	< 0.005	—	38.3	38.3	< 0.005	< 0.005	—	38.4
Total	0.51	0.26	4.61	3.55	0.03	0.35	0.35	—	0.35	—	5,555	5,555	0.49	0.01	—	5,571
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	—	< 0.005	—	50.6	50.6	< 0.005	< 0.005	—	50.7
Hospital	0.03	0.01	0.26	0.22	< 0.005	0.02	0.02	—	0.02	—	281	281	0.02	< 0.005	—	282
Medical Office Building	0.01	< 0.005	0.08	0.06	< 0.005	0.01	0.01	—	0.01	—	83.5	83.5	0.01	< 0.005	—	83.7
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
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	0.01	0.01	0.12	0.05	< 0.005	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
Condo/Townhouse	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	—	19.3	19.3	< 0.005	< 0.005	—	19.3
High Turnover (Sit Down Restaurant)	0.01	0.01	0.13	0.11	< 0.005	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	—	14.1	14.1	< 0.005	< 0.005	—	14.1

Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	73.1	0.01	< 0.005	—	73.3
Hotel	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	74.4	0.01	< 0.005	—	74.6
Arena	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.5	< 0.005	< 0.005	—	13.6
Convenience Market with Gas Pumps	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.62	< 0.005	< 0.005	—	8.64
Free-Standing Discount store	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.8	< 0.005	< 0.005	—	13.9
Strip Mall	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.33	< 0.005	< 0.005	—	6.35
Total	0.09	0.05	0.84	0.65	0.01	0.06	—	0.06	0.06	—	0.06	—	920	0.08	< 0.005	—	922

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	306	306	0.03	< 0.005	—	306
Hospital	0.16	0.08	1.42	1.20	0.01	0.11	—	0.11	0.11	—	0.11	—	1,698	1,698	0.15	< 0.005	—	1,703

Medical Office Building	0.05	0.02	0.42	0.36	< 0.005	0.03	—	0.03	—	0.03	—	504	504	0.04	< 0.005	—	506
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
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	0.08	0.04	0.71	0.60	< 0.005	0.05	—	0.05	0.05	0.05	—	850	850	0.08	< 0.005	—	852
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	0.01	—	85.0	85.0	0.01	< 0.005	—	85.2
Fast Food Restaurant with Drive Thru	0.04	0.02	0.37	0.31	< 0.005	0.03	—	0.03	0.03	0.03	—	442	442	0.04	< 0.005	—	443
Hotel	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	0.03	—	449	449	0.04	< 0.005	—	451
Arena	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	0.01	—	81.8	81.8	0.01	< 0.005	—	82.0
Convenience Market with Gas Pumps	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	52.0	52.0	< 0.005	< 0.005	—	52.2

Free-Station Discount store	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	—	0.01	—	83.6	83.6	0.01	< 0.005	—	83.8
Strip Mall	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	38.3	38.3	< 0.005	< 0.005	—	38.4
Total	0.42	0.21	3.85	3.23	0.02	0.29	—	0.29	—	0.29	—	4,589	4,589	0.41	0.01	—	4,602
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	—	0.02	—	306	306	0.03	< 0.005	—	306
Hospital	0.16	0.08	1.42	1.20	0.01	0.11	—	0.11	—	0.11	—	1,698	1,698	0.15	< 0.005	—	1,703
Medical Office Building	0.05	0.02	0.42	0.36	< 0.005	0.03	—	0.03	—	0.03	—	504	504	0.04	< 0.005	—	506
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
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	0.08	0.04	0.71	0.60	< 0.005	0.05	—	0.05	—	0.05	—	850	850	0.08	< 0.005	—	852

Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	—	0.01	—	85.0	85.0	0.01	< 0.005	—	85.2
Fast Food Restaurant with Drive Thru	0.04	0.02	0.37	0.31	< 0.005	0.03	—	0.03	—	0.03	—	442	442	0.04	< 0.005	—	443
Hotel	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	—	0.03	—	449	449	0.04	< 0.005	—	451
Arena	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	—	0.01	—	81.8	81.8	0.01	< 0.005	—	82.0
Convenience Market with Gas Pumps	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	52.0	52.0	< 0.005	< 0.005	—	52.2
Free-Standing Discount store	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	—	0.01	—	83.6	83.6	0.01	< 0.005	—	83.8
Strip Mall	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	38.3	38.3	< 0.005	< 0.005	—	38.4
Total	0.42	0.21	3.85	3.23	0.02	0.29	—	0.29	—	0.29	—	4,589	4,589	0.41	0.01	—	4,602
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	50.6	50.6	< 0.005	< 0.005	—	50.7
Hospital	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	—	0.02	—	281	281	0.02	< 0.005	—	282
Medical Office Building	0.01	< 0.005	0.08	0.06	< 0.005	0.01	—	0.01	—	0.01	—	83.5	83.5	0.01	< 0.005	—	83.7
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

Total	0.08	0.04	0.70	0.59	< 0.005	0.05	0.05	—	0.05	—	0.05	—	760	760	0.07	< 0.005	—	762
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4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	168	168	0.03	< 0.005	—	170
Consumer Products	14.9	14.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.36	5.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	4.98	4.63	0.31	34.9	< 0.005	0.04	—	0.04	0.03	—	0.03	—	123	123	0.01	< 0.005	—	123
Total	25.3	24.9	0.31	34.9	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	291	291	0.03	< 0.005	—	293
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	168	168	0.03	< 0.005	—	170
Consumer Products	14.9	14.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	5.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	20.3	20.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	168	168	0.03	< 0.005	—	—	—	—	170	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.26	6.26	< 0.005	< 0.005	—	—	—	—	6.33		
Consumer Products	2.73	2.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Architectural Coatings	0.98	0.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Landscaping Equipment	0.45	0.42	0.03	3.14	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	—	—	—	—	10.1		
Total	4.15	4.12	0.03	3.14	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	0.00	16.3	16.3	< 0.005	< 0.005	—	—	—	—	16.4		

4.3.2. Mitigated

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

Source	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	14.9	14.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	1.24	1.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscaping Equipment	4.98	4.63	0.31	34.9	< 0.005	0.04	—	0.04	0.03	—	0.03	—	123	123	0.01	< 0.005	—	123
Total	21.2	20.8	0.31	34.9	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	123	123	0.01	< 0.005	—	123
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	14.9	14.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.24	1.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.2	16.2	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.73	2.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	0.45	0.42	0.03	3.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.0	10.0	< 0.005	< 0.005	—	10.1
Total	3.40	3.37	0.03	3.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	10.0	10.0	< 0.005	< 0.005	—	10.1

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	21.1	19.2	40.3	2.16	0.05	—	110
Hospital	—	—	—	—	—	—	—	—	—	—	—	5.61	5.12	10.7	0.58	0.01	—	29.2
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	5.41	4.94	10.4	0.56	0.01	—	28.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	8.00	8.00	< 0.005	< 0.005	—	8.08
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	13.4	12.3	25.7	1.38	0.03	—	70.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.80	0.73	1.53	0.08	< 0.005	—	4.16
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	11.6	10.6	22.3	1.19	0.03	—	60.6
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.16	1.06	2.23	0.12	< 0.005	—	6.06

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	13.4	12.3	25.7	1.38	0.03	—	70.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.80	0.73	1.53	0.08	< 0.005	—	4.16
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	11.6	10.6	22.3	1.19	0.03	—	60.6
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	1.16	1.06	2.23	0.12	< 0.005	—	6.06
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	6.05	5.53	11.6	0.62	0.01	—	31.5
Hotel	—	—	—	—	—	—	—	—	—	—	3.65	3.33	6.98	0.37	0.01	—	19.0
Arena	—	—	—	—	—	—	—	—	—	—	4.95	4.55	9.50	0.51	0.01	—	25.8
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	0.79	0.73	1.52	0.08	< 0.005	—	4.14
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	5.76	5.26	11.0	0.59	0.01	—	30.0

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	0.91	1.92	0.10	< 0.005	—	5.22
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	0.60	1.15	0.06	< 0.005	—	3.15
Arena	—	—	—	—	—	—	—	—	—	—	—	—	0.82	1.57	0.08	< 0.005	—	4.28
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.25	0.01	< 0.005	—	0.69
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	0.95	1.83	0.10	< 0.005	—	4.97
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.84	0.04	< 0.005	—	2.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	13.7	27.6	1.41	0.03	—	72.9

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	21.1	19.2	40.3	2.16	0.05	—	110
Hospital	—	—	—	—	—	—	—	—	—	—	—	5.61	5.12	10.7	0.58	0.01	—	29.2

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	5.41	4.94	10.4	0.56	0.01	—	28.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	8.00	8.00	< 0.005	< 0.005	—	8.08
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	13.4	12.3	25.7	1.38	0.03	—	70.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	0.80	0.73	1.53	0.08	< 0.005	—	4.16
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	11.6	10.6	22.3	1.19	0.03	—	60.6
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	1.16	1.06	2.23	0.12	< 0.005	—	6.06
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	6.05	5.53	11.6	0.62	0.01	—	31.5
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	3.65	3.33	6.98	0.37	0.01	—	19.0
Arena	—	—	—	—	—	—	—	—	—	—	—	—	4.95	4.53	9.48	0.51	0.01	—	25.8
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.73	1.52	0.08	< 0.005	—	4.14

Free-Station Discount store	—	—	—	—	—	—	—	—	—	—	—	—	5.76	5.26	11.0	0.59	0.01	—	30.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2.64	2.41	5.05	0.27	0.01	—	13.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	83.0	83.8	167	8.52	0.20	—	440
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	21.1	19.2	40.3	2.16	0.05	—	110
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	5.61	5.12	10.7	0.58	0.01	—	29.2
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	5.41	4.94	10.4	0.56	0.01	—	28.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	8.00	8.00	< 0.005	< 0.005	—	8.08
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	13.4	12.3	25.7	1.38	0.03	—	70.0
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	0.80	0.73	1.53	0.08	< 0.005	—	4.16
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	11.6	10.6	22.3	1.19	0.03	—	60.6

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	1.16	1.06	2.23	0.12	< 0.005	—	6.06
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	5.53	11.6	0.62	0.01	—	31.5
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	3.65	3.33	6.98	0.37	0.01	—	19.0
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	4.95	4.53	9.48	0.51	0.01	—	25.8
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.73	1.52	0.08	< 0.005	—	4.14
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	5.76	5.26	11.0	0.59	0.01	—	30.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	2.64	2.41	5.05	0.27	0.01	—	13.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	83.0	83.8	167	8.52	0.20	—	440
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	3.49	3.19	6.67	0.36	0.01	—	18.2
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	0.93	0.85	1.78	0.10	< 0.005	—	4.84
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	0.90	0.82	1.71	0.09	< 0.005	—	4.67
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	1.32	1.32	< 0.005	< 0.005	—	1.34

Total	—	—	—	—	—	—	—	—	—	—	—	13.7	13.9	27.6	1.41	0.03	—	72.9
-------	---	---	---	---	---	---	---	---	---	---	---	------	------	------	------	------	---	------

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	84.0	0.00	84.0	8.39	0.00	—	294
Hospital	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	475
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	131	0.00	131	13.1	0.00	—	458
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	94.1	0.00	94.1	9.40	0.00	—	329
Condominiums	—	—	—	—	—	—	—	—	—	—	—	5.57	0.00	5.57	0.56	0.00	—	19.5

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	12.4	0.00	12.4	1.24	0.00	—	43.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	64.6	0.00	64.6	6.45	0.00	—	226
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	22.1	0.00	22.1	2.21	0.00	—	77.4
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.00	0.09	0.01	0.00	—	0.31
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	9.07	0.00	9.07	0.91	0.00	—	31.7
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	94.1	0.00	94.1	9.41	0.00	—	329
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	10.5	0.00	10.5	1.05	0.00	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	792	0.00	792	79.1	0.00	—	2,769
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	84.0	0.00	84.0	8.39	0.00	—	294

Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	475
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	131	0.00	131	13.1	0.00	—	458
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	94.1	0.00	94.1	9.40	0.00	—	329
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	5.57	0.00	5.57	0.56	0.00	—	19.5
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	449
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	12.4	0.00	12.4	1.24	0.00	—	43.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	64.6	0.00	64.6	6.45	0.00	—	226
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	22.1	0.00	22.1	2.21	0.00	—	77.4
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.00	0.09	0.01	0.00	—	0.31

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	21.2	0.00	21.2	2.12	0.00	—	74.3
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	2.06	0.00	2.06	0.21	0.00	—	7.19
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	0.00	10.7	1.07	0.00	—	37.4
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	3.66	0.00	3.66	0.37	0.00	—	12.8
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.05
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	1.50	0.00	1.50	0.15	0.00	—	5.25
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	0.00	15.6	1.56	0.00	—	54.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.09
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	131	0.00	131	13.1	0.00	—	458

4.5.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	84.0	0.00	84.0	8.39	0.00	—	—	—	294	—
Hospital	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	—	—	475	—
Medical Office Building	—	—	—	—	—	—	—	—	—	131	0.00	131	13.1	0.00	—	—	—	458	—
Parking Lot	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	—
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	94.1	0.00	94.1	9.40	0.00	—	—	—	329	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	5.57	0.00	5.57	0.56	0.00	—	—	—	19.5	—
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	—	—	449	—
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	12.4	0.00	12.4	1.24	0.00	—	—	—	43.4	—

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	6.45	0.00	—	226
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	2.21	0.00	—	77.4
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	0.00	—	0.31
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.91	0.00	—	31.7
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	9.41	0.00	—	329
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	1.05	0.00	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	79.1	0.00	—	2,769
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	8.39	0.00	—	294
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	13.6	0.00	—	475
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	13.1	0.00	—	458
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	0.00	10.7	1.07	0.00	—	37.4
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	3.66	0.00	3.66	0.37	0.00	—	12.8
Arena	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.05
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	1.50	0.00	1.50	0.15	0.00	—	5.25
Free-Standing Discount store	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	0.00	15.6	1.56	0.00	—	54.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	1.74	0.00	1.74	0.17	0.00	—	6.09
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	131	0.00	131	13.1	0.00	—	458

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.71	0.71
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11

[illegible]

[illegible]

[illegible]

[illegible]

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)

[illegible]

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)

Equipm ent 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)

Equipm ent 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Process Boiler	7.01	4.28	0.00	63.0	2.84	12.6	0.00	0.00	12.6	0.00	0.00	3.15	0.00	0.00	3.15	0.00	0.00	2.72	1.01	0.00	315,375
Total	7.01	4.28	0.00	63.0	2.84	12.6	0.00	0.00	12.6	0.00	0.00	3.15	0.00	0.00	3.15	0.00	0.00	2.72	1.01	0.00	315,375
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Process Boiler	7.01	4.28	0.00	63.0	2.84	12.6	0.00	0.00	12.6	0.00	0.00	3.15	0.00	0.00	3.15	0.00	0.00	2.72	1.01	0.00	315,375
Total	7.01	4.28	0.00	63.0	2.84	12.6	0.00	0.00	12.6	0.00	0.00	3.15	0.00	0.00	3.15	0.00	0.00	2.72	1.01	0.00	315,375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Process Boiler	1.28	0.78	0.00	11.5	0.52	2.30	0.00	0.00	2.30	0.00	0.00	0.57	0.00	0.00	0.57	0.00	0.00	0.45	0.17	0.00	52,197
Total	1.28	0.78	0.00	11.5	0.52	2.30	0.00	0.00	2.30	0.00	0.00	0.57	0.00	0.00	0.57	0.00	0.00	0.45	0.17	0.00	52,197

4.8.2. Mitigated

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

Equipm ent 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Process Boiler	7.01	4.28	0.00	63.0	2.84	12.6	0.00	0.00	0.00	0.00	12.6	3.15	0.00	0.00	315,005	315,005	2.72	1.01	0.00
Total	7.01	4.28	0.00	63.0	2.84	12.6	0.00	0.00	0.00	0.00	12.6	3.15	0.00	0.00	315,005	315,005	2.72	1.01	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Process Boiler	7.01	4.28	0.00	63.0	2.84	12.6	0.00	0.00	0.00	0.00	12.6	3.15	0.00	0.00	315,005	315,005	2.72	1.01	0.00
Total	7.01	4.28	0.00	63.0	2.84	12.6	0.00	0.00	0.00	0.00	12.6	3.15	0.00	0.00	315,005	315,005	2.72	1.01	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Process Boiler	1.28	0.78	0.00	11.5	0.52	2.30	0.00	0.00	0.00	0.57	2.30	0.57	0.00	0.00	52,136	52,136	0.45	0.17	0.00
Total	1.28	0.78	0.00	11.5	0.52	2.30	0.00	0.00	0.00	0.57	2.30	0.57	0.00	0.00	52,136	52,136	0.45	0.17	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

4.9.2. Mitigated

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

[illegible]

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)

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	0.00
Forest	—	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	—	—	—	—	264
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	—	—	—	—	264
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	0.00
Forest	—	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	—	—	—	—	264
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	—	—	—	—	264
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	0.00
Forest	—	—	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	—	—	—	—	—	—	—	43.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	—	—	—	—	—	—	—	43.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	73.0	73.0	—	—	—	73.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	73.0	73.0	—	—	—	73.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	73.0	73.0	—	—	—	73.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	73.0	73.0	—	—	—	73.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.1	12.1	—	—	—	12.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.1	12.1	—	—	—	12.1

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00
Red stem dogwood	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00
Ginkgo biloba	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.18	-1.18	—	—	—	-1.18
Bigleaf maple	0.00	> -0.005	> -0.005	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00
Saucer magnolia	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.76	-1.76	—	—	—	-1.76
Flowering dogwood	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-0.27	-0.27	—	—	—	-0.27

Bay laurel	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Trident maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Chaste Tree	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Ginkgo biloba	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Japanese maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
California redbud	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Dogwood spp.	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Subtotal	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	-3.21	-3.21
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-6.17	-6.17
Red stem dogwood	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-7.63
Ginkgo biloba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.67	-0.67
Bigleaf maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-5.15	-5.15
Saucer magnolia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-7.42	-7.42
Flowering dogwood	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.33	-1.33

Bay laurel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-2.24	—	—	-2.24	—	—	—	-2.24
Trident maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.77	—	—	-1.77	—	—	—	-1.77
Chaste Tree	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.05	—	—	-1.05	—	—	—	-1.05
Ginkgo biloba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.33	—	—	-0.33	—	—	—	-0.33
Japanese maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.40	—	—	-1.40	—	—	—	-1.40
California redbud	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-3.06	—	—	-3.06	—	—	—	-3.06
Dogwood spp.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-2.54	—	—	-2.54	—	—	—	-2.54
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-40.8	—	—	-40.8	—	—	—	-40.8
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Red stem dogwood	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Ginkgo biloba	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Bigleaf maple	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Saucer magnolia	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Flowering dogwood	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—

Bay laurel	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Trident maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Chaste Tree	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Ginkgo biloba	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Japanese maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
California redbud	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Dogwood spp.	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Subtotal	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-44.0	-44.0	—	—	-44.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	0.00
Red stem dogwood	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	0.00
Ginkgo biloba	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.18	-1.18	—	—	-1.18
Bigleaf maple	—	0.00	> -0.005	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	0.00

Saucer magnolia	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-1.76	—	—	-1.76
Flowering dogwood	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-0.27	—	—	-0.27
Bay laurel	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Trident maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Chaste Tree	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Ginkgo biloba	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Japanese maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
California redbud	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Dogwood spp.	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Subtotal	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-3.21	—	—	-3.21
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-6.17	—	—	-6.17
Red stem dogwood	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-7.63	—	—	-7.63
Ginkgo biloba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.67	—	—	-0.67
Bigleaf maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-5.15	—	—	-5.15

[illegible]

Saucer magnolia	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Flowerin dogwood	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Bay laurel	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Trident maple	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Chaste Tree	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ginkgo biloba	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Japanese maple	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
California redbud	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Dogwood spp.	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-44.0	-44.0	—	—	—	-44.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00
Red stem dogwood	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00

Ginkgo biloba	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-0.19	—	—	-0.19
Bigleaf maple	—	0.00	> -0.005	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Saucer magnolia	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-0.29	—	—	-0.29
Flowering dogwood	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-0.04	—	—	-0.04
Bay laurel	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Trident maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Chaste Tree	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Ginkgo biloba	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Japanese maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
California redbud	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Dogwood spp.	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00
Subtotal	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-0.53	—	—	-0.53
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.02	—	—	-1.02
Red stem dogwood	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.26	—	—	-1.26

Ginkgo biloba	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Bigleaf maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Saucer magnolia	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Flowering dogwood	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Bay laurel	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Trident maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Chaste Tree	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ginkgo biloba	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Japanese maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
California redbud	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Dogwood spp.	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-7.28	-7.28	—	—	—	-7.28

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Forest	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	264
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	264
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Forest	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	264
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	264
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Forest	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	264
Total	—	—	—	—	—	—	—	—	—	—	—	—	264	264	—	—	—	264
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Forest	—	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	—	—	—	43.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	—	—	—	43.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	73.0	73.0	—	—	—	73.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	73.0	73.0	—	—	—	73.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Broadle Forest	—	—	—	—	—	—	—	—	—	—	—	73.0	73.0	—	—	—	73.0
Total	—	—	—	—	—	—	—	—	—	—	—	73.0	73.0	—	—	—	73.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	12.1	12.1	—	—	—	12.1
Total	—	—	—	—	—	—	—	—	—	—	—	12.1	12.1	—	—	—	12.1

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00
Red stem dogwood	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00
Ginkgo biloba	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.18	-1.18	—	—	—	-1.18
Bigleaf maple	0.00	> -0.005	> -0.005	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00
Saucer magnolia	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.76	-1.76	—	—	—	-1.76
Flowering dogwood	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-0.27	-0.27	—	—	—	-0.27

Bay laurel	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Trident maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Chaste Tree	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Ginkgo biloba	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Japanese maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
California redbud	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Dogwood spp.	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00
Subtotal	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	-3.21	-3.21
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-6.17	-6.17
Red stem dogwood	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-7.63
Ginkgo biloba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.67	-0.67
Bigleaf maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-5.15	-5.15
Saucer magnolia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-7.42	-7.42
Flowering dogwood	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.33	-1.33

Bay laurel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-2.24	—	—	-2.24	—	—	—	-2.24
Trident maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.77	—	—	-1.77	—	—	—	-1.77
Chaste Tree	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.05	—	—	-1.05	—	—	—	-1.05
Ginkgo biloba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.33	—	—	-0.33	—	—	—	-0.33
Japanese maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.40	—	—	-1.40	—	—	—	-1.40
California redbud	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-3.06	—	—	-3.06	—	—	—	-3.06
Dogwood spp.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-2.54	—	—	-2.54	—	—	—	-2.54
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-40.8	—	—	-40.8	—	—	—	-40.8
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Red stem dogwood	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Ginkgo biloba	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Bigleaf maple	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Saucer magnolia	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—
Flowering dogwood	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—	—	—

Bay laurel	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Trident maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Chaste Tree	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Ginkgo biloba	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Japanese maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
California redbud	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Dogwood spp.	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
Subtotal	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-44.0	-44.0	—	—	-44.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	0.00
Red stem dogwood	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	0.00
Ginkgo biloba	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.18	-1.18	—	—	-1.18
Bigleaf maple	—	0.00	> -0.005	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	0.00

Saucer magnolia	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-1.76	—	—	-1.76	-1.76	—	—
Flowering dogwood	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-0.27	—	—	-0.27	-0.27	—	-0.27
Bay laurel	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	0.00
Trident maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	0.00
Chaste Tree	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	0.00
Ginkgo biloba	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	0.00
Japanese maple	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	0.00
California redbud	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	0.00
Dogwood spp.	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	0.00
Subtotal	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	-3.21	—	—	-3.21	-3.21	—	-3.21
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-6.17	—	—	-6.17	-6.17	—	-6.17
Red stem dogwood	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-7.63	—	—	-7.63	-7.63	—	-7.63
Ginkgo biloba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.67	—	—	-0.67	-0.67	—	-0.67
Bigleaf maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-5.15	—	—	-5.15	-5.15	—	-5.15

[illegible]

Saucer magnolia	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Flowerin dogwood	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Bay laurel	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Trident maple	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Chaste Tree	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ginkgo biloba	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Japanese maple	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
California redbud	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Dogwood spp.	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-44.0	-44.0	—	—	—	-44.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00
Red stem dogwood	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	—	—	0.00

Ginkgo biloba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.11	—	—	-0.11
Bigleaf maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.85	—	—	-0.85
Saucer magnolia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-1.23	—	—	-1.23
Flowering dogwood	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.22	—	—	-0.22
Bay laurel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.37	—	—	-0.37
Trident maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.29	—	—	-0.29
Chaste Tree	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.17	—	—	-0.17
Ginkgo biloba	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.06	—	—	-0.06
Japanese maple	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.23	—	—	-0.23
California redbud	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.51	—	—	-0.51
Dogwood spp.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-0.42	—	—	-0.42
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-6.75	—	—	-6.75
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
California sycamore	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—
Red stem dogwood	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—

Ginkgo biloba	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Bigleaf maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Saucer magnolia	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Flowering dogwood	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Bay laurel	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Trident maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Chaste Tree	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ginkgo biloba	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Japanese maple	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
California redbud	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Dogwood spp.	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-7.28	-7.28	—	—	—	-7.28

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	5/1/2026	10/31/2026	5.00	131	—
Site Preparation	Site Preparation	6/2/2026	10/31/2027	5.00	369	—
Grading	Grading	10/4/2026	3/7/2027	5.00	110	—
Building Construction	Building Construction	3/8/2027	6/9/2031	5.00	1,110	—
Paving	Paving	5/10/2027	9/23/2031	5.00	1,142	—
Architectural Coating	Architectural Coating	9/24/2027	1/7/2032	5.00	1,119	—
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	5/1/2026	8/1/2026	5.00	66.0	—
Linear, Grading & Excavation	Linear, Grading & Excavation	8/4/2026	10/31/2026	5.00	64.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	10/31/2026	6/30/2027	5.00	173	—
Linear, Paving	Linear, Paving	7/1/2026	8/29/2026	5.00	43.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	9.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	5.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	5.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	6.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29

Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	3.00	8.00	81.0	0.42
Paving	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Tier 4 Final	2.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Linear, Grading & Excavation	Excavators	Diesel	Tier 4 Final	7.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Tier 4 Final	3.00	8.00	87.0	0.43
Linear, Grading & Excavation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Linear, Grading & Excavation	Graders	Diesel	Tier 4 Final	3.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Tier 4 Final	5.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Linear, Grading & Excavation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Tier 4 Final	4.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48

Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Tier 4 Final	3.00	8.00	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Tier 4 Final	2.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Tier 4 Final	2.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Tier 4 Final	2.00	8.00	14.0	0.74
Linear, Paving	Rollers	Diesel	Tier 4 Final	4.00	8.00	36.0	0.38
Linear, Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Linear, Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Linear, Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Linear, Paving	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	9.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	5.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	5.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	6.00	8.00	148	0.41

Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	3.00	8.00	81.0	0.42
Paving	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Tier 4 Final	2.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Linear, Grading & Excavation	Excavators	Diesel	Tier 4 Final	7.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Tier 4 Final	3.00	8.00	87.0	0.43
Linear, Grading & Excavation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Linear, Grading & Excavation	Graders	Diesel	Tier 4 Final	3.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Tier 4 Final	5.00	8.00	36.0	0.38
Linear, Grading & Excavation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Linear, Grading & Excavation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82

Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Tier 4 Final	4.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Tier 4 Final	3.00	8.00	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Tier 4 Final	2.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Tier 4 Final	2.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Tier 4 Final	2.00	8.00	14.0	0.74
Linear, Paving	Rollers	Diesel	Tier 4 Final	4.00	8.00	36.0	0.38
Linear, Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Linear, Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Linear, Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Linear, Paving	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
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Demolition	—	—	—	—	—
Demolition	Worker	27.5	10.1	LDA,LDT1,LDT2	
Demolition	Vendor	2.00	7.35	HHDT,MHDT	
Demolition	Hauling	0.99	20.0	HHDT	
Demolition	Onsite truck	2.00	7.35	HHDT	
Site Preparation	—	—	—	—	
Site Preparation	Worker	25.0	10.1	LDA,LDT1,LDT2	
Site Preparation	Vendor	2.00	7.35	HHDT,MHDT	
Site Preparation	Hauling	7.49	20.0	HHDT	
Site Preparation	Onsite truck	2.00	7.35	HHDT	
Grading	—	—	—	—	
Grading	Worker	20.0	10.1	LDA,LDT1,LDT2	
Grading	Vendor	2.00	7.35	HHDT,MHDT	
Grading	Hauling	50.8	20.0	HHDT	
Grading	Onsite truck	2.00	7.35	HHDT	
Building Construction	—	—	—	—	
Building Construction	Worker	344	10.1	LDA,LDT1,LDT2	
Building Construction	Vendor	105	7.35	HHDT,MHDT	
Building Construction	Hauling	0.00	20.0	HHDT	
Building Construction	Onsite truck	2.00	7.35	HHDT	
Paving	—	—	—	—	
Paving	Worker	25.0	10.1	LDA,LDT1,LDT2	
Paving	Vendor	2.00	7.35	HHDT,MHDT	
Paving	Hauling	0.00	20.0	HHDT	
Paving	Onsite truck	2.00	7.35	HHDT	
Architectural Coating	—	—	—	—	
Architectural Coating	Worker	68.9	10.1	LDA,LDT1,LDT2	
Architectural Coating	Vendor	0.00	0.00	HHDT,MHDT	

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	2.00	7.35	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	17.5	10.1	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	7.35	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	2.00	7.35	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	87.5	10.1	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	7.35	HHDT,MHDT
Linear, Grading & Excavation	Hauling	7.42	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	2.00	7.35	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	62.5	10.1	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	7.35	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	2.00	7.35	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	35.0	10.1	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	7.35	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	2.00	7.35	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
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Demolition	—	—	—	—	—
Demolition	Worker	27.5	10.1	LDA,LDT1,LDT2	
Demolition	Vendor	2.00	7.35	HHDT,MHDT	
Demolition	Hauling	0.99	20.0	HHDT	
Demolition	Onsite truck	2.00	7.35	HHDT	
Site Preparation	—	—	—	—	
Site Preparation	Worker	25.0	10.1	LDA,LDT1,LDT2	
Site Preparation	Vendor	2.00	7.35	HHDT,MHDT	
Site Preparation	Hauling	7.49	20.0	HHDT	
Site Preparation	Onsite truck	2.00	7.35	HHDT	
Grading	—	—	—	—	
Grading	Worker	20.0	10.1	LDA,LDT1,LDT2	
Grading	Vendor	2.00	7.35	HHDT,MHDT	
Grading	Hauling	50.8	20.0	HHDT	
Grading	Onsite truck	2.00	7.35	HHDT	
Building Construction	—	—	—	—	
Building Construction	Worker	344	10.1	LDA,LDT1,LDT2	
Building Construction	Vendor	105	7.35	HHDT,MHDT	
Building Construction	Hauling	0.00	20.0	HHDT	
Building Construction	Onsite truck	2.00	7.35	HHDT	
Paving	—	—	—	—	
Paving	Worker	25.0	10.1	LDA,LDT1,LDT2	
Paving	Vendor	2.00	7.35	HHDT,MHDT	
Paving	Hauling	0.00	20.0	HHDT	
Paving	Onsite truck	2.00	7.35	HHDT	
Architectural Coating	—	—	—	—	
Architectural Coating	Worker	68.9	10.1	LDA,LDT1,LDT2	
Architectural Coating	Vendor	0.00	0.00	HHDT,MHDT	

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	2.00	7.35	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	17.5	10.1	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	7.35	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	2.00	7.35	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	87.5	10.1	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	7.35	HHDT,MHDT
Linear, Grading & Excavation	Hauling	7.42	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	2.00	7.35	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	62.5	10.1	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	7.35	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	2.00	7.35	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	35.0	10.1	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	7.35	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	2.00	7.35	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	511,191	170,397	657,374	218,869	130,167

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	11,280	—
Site Preparation	0.00	22,098	923	0.00	—
Grading	44,743	0.00	660	0.00	—
Paving	0.00	0.00	0.00	0.00	30.7
Linear, Grubbing & Land Clearing	0.00	0.00	1.23	0.00	—
Linear, Grading & Excavation	3,800	0.00	1.23	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	0.00	0.00	1.23	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Regional Shopping Center	0.00	0%
Hospital	0.00	0%
	220 / 246	

Medical Office Building	0.00	0%
Bridge/Overpass Construction	0.46	100%
Parking Lot	28.9	100%
Unenclosed Parking with Elevator	0.59	100%
Apartments Mid Rise	—	0%
Condo/Townhouse	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Fast Food Restaurant w/o Drive Thru	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Hotel	0.00	0%
Road Construction	0.77	100%
Arena	0.00	0%
Convenience Market with Gas Pumps	0.00	0%
Free-Standing Discount store	0.00	0%
Strip Mall	0.00	0%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)				
Year	kWh per Year	CO2	CH4	N2O
2026	235	204	0.03	< 0.005
2027	58.7	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2029	0.00	204	0.03	< 0.005
2030	0.00	204	0.03	< 0.005
2031	0.00	204	0.03	< 0.005
2032	0.00	204	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
Regional Shopping Center	5,602	6,844	3,131	1,980,696	12,631	17,218	7,877	4,601,514
Hospital	250	180	158	82,845	1,094	788	691	362,455
Medical Office Building	783	193	31.9	215,860	3,426	844	140	944,406
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	1,284	1,159	965	445,467	8,634	7,793	6,492	2,995,927
Condo/Townhouse	102	114	87.9	37,245	689	766	591	250,484
High Turnover (Sit Down Restaurant)	2,244	2,448	2,853	861,337	4,431	10,710	12,481	2,364,579
Fast Food Restaurant w/o Drive Thru	692	1,392	1,000	305,260	3,030	6,090	4,375	1,335,541
Fast Food Restaurant with Drive Thru	4,898	6,408	4,915	1,867,334	8,272	28,034	21,503	4,739,631
Hotel	627	614	446	218,765	2,743	2,687	1,952	957,119
Arena	64.3	64.3	64.3	23,462	281	281	281	102,648
Convenience Market with Gas Pumps	3,496	3,496	3,496	1,275,865	3,890	15,293	15,293	2,608,916
Free-Standing Discount store	2,157	2,873	2,445	839,539	6,298	7,854	6,683	2,399,957
Strip Mall	177	168	81.7	59,249	776	736	358	259,219
Strip Mall	646	613	298	215,962	2,827	2,682	1,303	944,855

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Regional Shopping Center	5,244	6,406	2,931	1,853,931	11,822	16,116	7,373	4,307,017
Hospital	234	169	148	77,543	1,024	738	647	339,258
Medical Office Building	733	180	29.9	202,045	3,206	790	131	883,964
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	1,202	1,085	903	416,957	8,082	7,294	6,076	2,804,188
Condo/Townhouse	95.9	107	82.3	34,861	645	717	553	234,453
High Turnover (Sit Down Restaurant)	2,100	2,291	2,670	806,212	4,148	10,025	11,682	2,213,246
Fast Food Restaurant w/o Drive Thru	648	1,303	936	285,723	2,836	5,700	4,095	1,250,066
Fast Food Restaurant with Drive Thru	4,584	5,998	4,600	1,747,824	7,743	26,240	20,127	4,436,295
Hotel	587	575	418	204,764	2,568	2,515	1,827	895,863
Arena	60.2	60.2	60.2	21,960	263	263	263	96,079
Convenience Market with Gas Pumps	3,272	3,272	3,272	1,194,209	3,641	14,314	14,314	2,441,945
Free-Standing Discount store	2,019	2,689	2,288	785,808	5,895	7,351	6,255	2,246,359
Strip Mall	166	157	76.5	55,457	726	689	335	242,629
Strip Mall	605	574	279	202,141	2,646	2,510	1,220	884,384

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	236
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	14
No Fireplaces	1
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
511191	170,397	657,374	218,869	130,167

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Regional Shopping Center	1,238,883	204	0.0330	0.0040	953,574
Hospital	2,757,861	204	0.0330	0.0040	5,298,662
Medical Office Building	1,422,622	204	0.0330	0.0040	1,573,543
Parking Lot	1,878,034	204	0.0330	0.0040	0.00
Unenclosed Parking with Elevator	105,080	204	0.0330	0.0040	0.00
Apartments Mid Rise	753,502	204	0.0330	0.0040	2,650,537
Condo/Townhouse	57,940	204	0.0330	0.0040	363,203
High Turnover (Sit Down Restaurant)	879,289	204	0.0330	0.0040	2,650,937
Fast Food Restaurant w/o Drive Thru	87,929	204	0.0330	0.0040	265,094
Fast Food Restaurant with Drive Thru	457,230	204	0.0330	0.0040	1,378,487
Hotel	310,445	204	0.0330	0.0040	1,401,916

Arena	62,210	204	0.0330	0.0040	255,263
Convenience Market with Gas Pumps	287,753	204	0.0330	0.0040	162,374
Free-Standing Discount store	338,940	204	0.0330	0.0040	260,883
Strip Mall	33,393	204	0.0330	0.0040	25,703
Strip Mall	121,718	204	0.0330	0.0040	93,687

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)
Regional Shopping Center	1,238,883	204	0.0330	0.0040	953,574
Hospital	2,757,861	204	0.0330	0.0040	5,298,662
Medical Office Building	1,422,622	204	0.0330	0.0040	1,573,543
Parking Lot	1,878,034	204	0.0330	0.0040	0.00
Unenclosed Parking with Elevator	105,080	204	0.0330	0.0040	0.00
Apartments Mid Rise	755,486	204	0.0330	0.0040	0.00
Condo/Townhouse	60,221	204	0.0330	0.0040	0.00
High Turnover (Sit Down Restaurant)	879,289	204	0.0330	0.0040	2,650,937
Fast Food Restaurant w/o Drive Thru	87,929	204	0.0330	0.0040	265,094
Fast Food Restaurant with Drive Thru	457,230	204	0.0330	0.0040	1,378,487
Hotel	310,445	204	0.0330	0.0040	1,401,916
Arena	62,210	204	0.0330	0.0040	255,263
Convenience Market with Gas Pumps	287,753	204	0.0330	0.0040	162,374
Free-Standing Discount store	338,940	204	0.0330	0.0040	260,883
Strip Mall	33,393	204	0.0330	0.0040	25,703

Strip Mall	121,718	204	0.0330	0.0040	93,687
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5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Regional Shopping Center	10,992,362	0.00
Hospital	2,927,963	0.00
Medical Office Building	2,823,312	0.00
Parking Lot	0.00	8,874,721
Unenclosed Parking with Elevator	0.00	0.00
Apartments Mid Rise	7,013,519	0.00
Condo/Townhouse	416,056	0.00
High Turnover (Sit Down Restaurant)	6,070,674	0.00
Fast Food Restaurant w/o Drive Thru	607,067	0.00
Fast Food Restaurant with Drive Thru	3,156,751	0.00
Hotel	1,902,508	0.00
Arena	2,584,621	30,183
Convenience Market with Gas Pumps	414,806	0.00
Free-Standing Discount store	3,007,344	0.00
Strip Mall	296,290	0.00
Strip Mall	1,079,977	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Regional Shopping Center	10,992,362	0.00
Hospital	2,927,963	0.00
Medical Office Building	2,823,312	0.00
		228 / 246

Parking Lot	0.00	8,874,721
Unenclosed Parking with Elevator	0.00	0.00
Apartments Mid Rise	7,013,519	0.00
Condo/Townhouse	416,056	0.00
High Turnover (Sit Down Restaurant)	6,070,674	0.00
Fast Food Restaurant w/o Drive Thru	607,067	0.00
Fast Food Restaurant with Drive Thru	3,156,751	0.00
Hotel	1,902,508	0.00
Arena	2,584,621	7,415
Convenience Market with Gas Pumps	414,806	0.00
Free-Standing Discount store	3,007,344	0.00
Strip Mall	296,290	0.00
Strip Mall	1,079,977	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Regional Shopping Center	156	—
Hospital	252	—
Medical Office Building	243	—
Parking Lot	0.00	—
Unenclosed Parking with Elevator	0.00	—
Apartments Mid Rise	175	—
Condo/Townhouse	10.3	—
High Turnover (Sit Down Restaurant)	238	—
Fast Food Restaurant w/o Drive Thru	23.0	—
Fast Food Restaurant with Drive Thru	120	—

Hotel	41.1	—
Arena	0.17	—
Convenience Market with Gas Pumps	16.8	—
Free-Standing Discount store	175	—
Strip Mall	4.20	—
Strip Mall	15.3	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Regional Shopping Center	156	—
Hospital	252	—
Medical Office Building	243	—
Parking Lot	0.00	—
Unenclosed Parking with Elevator	0.00	—
Apartments Mid Rise	175	—
Condo/Townhouse	10.3	—
High Turnover (Sit Down Restaurant)	238	—
Fast Food Restaurant w/o Drive Thru	23.0	—
Fast Food Restaurant with Drive Thru	120	—
Hotel	41.1	—
Arena	0.17	—
Convenience Market with Gas Pumps	16.8	—
Free-Standing Discount store	175	—
Strip Mall	4.20	—
Strip Mall	15.3	—

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
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Hospital	Chillers	R-134a	1,430	< 0.005	2.00	2.00	23.0
Hospital	Household refrigerators and/or freezers	R-134a	1,430	< 0.005	0.60	0.00	1.00
Hospital	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Hospital	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
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
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Arena	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Arena	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Arena	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Convenience Market with Gas Pumps	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Convenience Market with Gas Pumps	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Free-Standing Discount store	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Free-Standing Discount store	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Hospital	Chillers	R-134a	1,430	< 0.005	2.00	2.00	23.0
Hospital	Household refrigerators and/or freezers	R-134a	1,430	< 0.005	0.60	0.00	1.00

Hospital	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Hospital	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
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
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Arena	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Arena	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Arena	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Convenience Market with Gas Pumps	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market with Gas Pumps	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Free-Standing Discount store	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Free-Standing Discount store	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	0.00	0.00	96.0	8.00	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
Boiler - Diesel (0–9999 MMBTU)	Diesel	3.00	24.5	588	214,550

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
Urban	Vertisols	19.6	4.54
Forest	Alfisols	38.7	0.00

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
Urban	Vertisols	19.6	4.54
Forest	Alfisols	38.7	0.00

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	3.65	0.00

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	3.65	0.00

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
California sycamore	120	0.00	0.00
Red stem dogwood	60.0	0.00	0.00
Ginkgo biloba	20.0	17,098	58.8
Bigleaf maple	20.0	0.00	0.00
Saucer magnolia	40.0	25,436	88.7
Flowering dogwood	10.0	4,022	13.1
Bay laurel	10.0	0.00	0.00
Trident maple	10.0	0.00	0.00
Saucer magnolia	10.0	0.00	0.00
Chaste Tree	10.0	0.00	0.00
Ginkgo biloba	10.0	0.00	0.00
Japanese maple	20.0	0.00	0.00
California redbud	20.0	0.00	0.00
Dogwood spp.	20.0	0.00	0.00
California sycamore	10.0	0.00	0.00
Bigleaf maple	20.0	0.00	0.00

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
California sycamore	120	0.00	0.00
Red stem dogwood	60.0	0.00	0.00
Ginkgo biloba	20.0	17,098	58.8
Bigleaf maple	20.0	0.00	0.00
Saucer magnolia	40.0	25,436	88.7
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Flowering dogwood	10.0	4,022	13.1
Bay laurel	10.0	0.00	0.00
Trident maple	10.0	0.00	0.00
Saucer magnolia	10.0	0.00	0.00
Chaste Tree	10.0	0.00	0.00
Ginkgo biloba	10.0	0.00	0.00
Japanese maple	20.0	0.00	0.00
California redbud	20.0	0.00	0.00
Dogwood spp.	20.0	0.00	0.00
California sycamore	10.0	0.00	0.00
Bigleaf maple	20.0	0.00	0.00

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	14.2	annual days of extreme heat
Extreme Precipitation	12.2	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.3	annual hectares burned

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

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	3	2	2
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	5	3	3	3
Flooding	1	2	4	1
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	3	2	2
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	5	3	5	1
Flooding	1	2	4	1
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

6.4.1. Wildfire

User Selected Measures	Co-Benefits Achieved	Exposure Reduction	Sensitivity Reduction	Adaptive Capacity Increase
WF-6: Designate and Strengthen Wildfire Emergency Routes	Improved Public Health, Social Equity	—	—	2.00

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	16.8	
AQ-PM	0.19	
AQ-DPM	37.4	
Drinking Water	64.2	
Lead Risk Housing	63.1	
Pesticides	43.4	
Toxic Releases	0.74	
Traffic	20.4	
Effect Indicators	—	
CleanUp Sites	71.6	
Groundwater	59.6	

Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	51.2
Solid Waste	80.5
Sensitive Population	—
Asthma	97.4
Cardio-vascular	81.7
Low Birth Weights	90.6
Socioeconomic Factor Indicators	—
Education	63.4
Housing	81.8
Linguistic	4.59
Poverty	98.0
Unemployment	99.4

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	3.002694726
Employed	1.591171564
Median HI	1.475683306
Education	—
Bachelor's or higher	11.36917747
High school enrollment	100
Preschool enrollment	49.7754395
Transportation	—
Auto Access	7.878865649
Active commuting	29.50083408

Social	—
2-parent households	1.745155909
Voting	16.57898114
Neighborhood	—
Alcohol availability	64.31412806
Park access	81.35506224
Retail density	25.43308097
Supermarket access	42.69215963
Tree canopy	89.76004106
Housing	—
Homeownership	41.48594893
Housing habitability	19.17105094
Low-inc homeowner severe housing cost burden	3.592968048
Low-inc renter severe housing cost burden	46.90106506
Uncrowded housing	44.45014757
Health Outcomes	—
Insured adults	33.59425125
Arthritis	0.0
Asthma ER Admissions	4.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	0.8
Cognitively Disabled	2.2
Physically Disabled	1.7

Heart Attack ER Admissions	47.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.2
SLR Inundation Area	0.0
Children	19.9
Elderly	38.5
English Speaking	52.3
Foreign-born	30.0
Outdoor Workers	1.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	88.8
Traffic Density	6.6
Traffic Access	0.0
Other Indices	—
Hardship	89.1
Other Decision Support	—
2016 Voting	13.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	73.0
Healthy Places Index Score for Project Location (b)	4.00
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 Healthy 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	User defined hospital - building SF modified to reflect actual total bldg SF User defined medical office - building SF modified to reflect actual total bldg SF User defined structured parking - building SF modified to reflect actual total bldg SF (partially underground) User defined apartment mid-rise - modified to reflect actual lot acreage and bldg SF User defined condo/townhouse - modified to reflect actual lot acreage and bldg SF User defined hotel - modified to reflect actual lot acreage and bldg SF, and includes conference bldg User defined strip mall retail (both) - lot acreage zeroed out for both to reflect that they are each a part of a mixed use building with greater lot acreages for residential uses, per CalEEMod Guidelines. Open space area assumed as a city park for worst-case scenario. Pedestrian overpass at 20 ft width in acreage assumption.

	Parking Lot land use category includes all all landscaped areas, storm water detention basins, and xeriscaped areas in "open space"
Construction: Construction Phases	Input timeline for linear construction. No defaults.
Construction: Off-Road Equipment	Modified number of equipment pieces per City Engineer. Modified engine tier type to Tier 4 Final to see difference with Tier 4 engine mitigation.
Construction: Architectural Coatings	Added missing phases that will have VOC emissions, defaults used: architectural coating, paving, and building construction.
Construction: Paving	Modified parking acreage to remove landscaping.
Operations: Road Dust	All roads will be paved. Changed default of 74.5% to 100%. Changed mean vehicle speed to 35 due to traffic calming measures through area.
Construction: Dust From Material Movement	Manually entered imported and exported material per City Engineer.
Operations: Hearths	Reduced # wood stoves to 0 and assumed electric fireplaces for all residences as that will be an included mitigation measure.
Construction: Trips and VMT	Included one vendor round trip and one worker round trip per day for miscellaneous construction needs, inspections, monitoring, etc.

**Clearlake Airport Redevelopment Project
Natural Gas Conversion to Electricity**

Land Use Subtype	Total Annual Consumption				Subject to Title 24 Standards				Annual Consumption by Title 24 Category			
	Electricity (kWh/year)	Natural Gas (kBtu/year)	kBTU/year to Conversion (1 kWh = 3.412 kBtu)	Total Electricity (kWh/year)	Electricity (kWh/year)	Natural Gas (kBtu/year)	kBTU/year to Conversion (1 kWh = 3.412 kBtu)	Total Electricity (kWh/year)	Electricity (kWh/year)	Natural Gas (kBtu/year)	kBTU/year to Conversion (1 kWh = 3.412 kBtu)	Total Electricity (kWh/year)
Regional Shopping Center	1,238,882.94	953,573.79	279,476.49	1,518,359.43	877,825.01	936,907.73	274,591.95	1,152,416.96	361,057.93	16,666.07	4,884.55	365,942.48
Hospital	2,757,861.27	5,298,662.33	1,552,949.10	4,310,810.37	1,270,191.66	4,008,701.21	1,174,883.12	2,445,074.78	1,487,669.61	1,289,961.12	378,065.98	1,865,735.59
Medical Office Building	1,422,622.27	1,573,542.79	461,179.01	1,883,801.28	930,052.80	1,237,595.93	362,718.62	1,292,771.42	492,569.46	335,946.86	98,460.39	591,029.85
Parking Lot	1,878,033.59	-	-	1,878,033.59	1,878,033.59	-	-	1,878,033.59	-	-	-	-
Unenclosed Parking with Elevator	105,080.40	-	-	105,080.40	97,995.49	-	-	97,995.49	7,084.91	-	-	7,084.91
Apartments Midrise	753,501.79	2,650,537.44	776,828.09	1,530,329.88	208,393.92	2,585,139.65	757,661.09	966,055.01	545,107.87	65,397.78	19,166.99	564,274.86
Condo Townhouse	57,939.56	363,202.78	106,448.65	164,388.21	11,969.35	351,623.29	103,054.89	115,024.24	45,970.21	11,579.49	3,393.75	49,363.96
High Turnover Restaurant	879,289.00	2,650,936.93	776,945.17	1,656,234.17	317,222.51	544,611.65	159,616.54	476,839.05	562,066.49	2,106,325.28	617,328.63	1,179,395.12
Fast Food Restaurant w/o Drive Thru	87,928.90	265,093.69	77,694.52	165,623.42	31,722.25	54,461.17	15,961.66	47,683.91	56,206.65	210,632.53	61,732.86	117,939.51
Fast Food Restaurant w/Drive Thru	457,230.28	1,378,487.20	404,011.49	861,241.77	164,955.71	283,198.06	83,000.60	247,956.31	292,274.57	1,095,289.15	321,010.89	613,285.46
Hotel	310,444.86	1,401,915.67	410,877.98	721,322.84	151,445.62	1,247,847.17	365,723.09	517,168.71	158,999.24	154,068.51	45,154.90	204,154.14
Arena	62,209.82	255,262.70	74,813.22	137,023.04	26,625.33	107,928.51	31,632.04	58,257.37	35,584.48	147,334.18	43,181.18	78,765.66
Convenience Market with Gas Pumps	287,752.80	162,373.61	47,588.98	335,341.78	111,190.57	127,428.17	37,347.06	148,537.63	176,562.24	34,945.44	10,241.92	186,804.16
Free-Standing Discount Store	338,939.67	260,883.40	76,460.55	415,400.22	240,159.67	256,323.81	75,124.21	315,283.88	98,780.00	4,559.58	1,336.34	100,116.34
Strip Mall	33,393.07	25,702.80	7,533.06	40,926.13	23,661.05	25,253.58	7,401.40	31,062.45	9,732.02	449.22	131.66	9,863.68
Strip Mall	121,717.74	39,686.70	11,631.51	133,349.25	86,244.53	92,049.29	26,978.10	113,222.63	35,473.21	1,637.41	479.90	35,953.11
SUBTOTAL	10,792,827.96	17,279,861.83	5,064,437.82	15,857,265.78	6,427,689.06	11,859,069.22	3,475,694.38	9,903,383.44	4,365,138.89	5,474,792.62	1,604,569.94	5,969,708.83

i-Tree Planting Report

i-Tree Benefits and Tree Growth Forecast

Location: Clearlake, California 95422
Total number of trees planted in this project: 410
Electricity Emissions Factor: 252.40 kilograms CO2 equivalent/MWh
Fuel Emissions Factor: 52.00 kilograms CO2 equivalent/MMBtu
Lifetime: 40 years
Annual Tree Mortality: 3%

All amounts in the tables are for the full lifetime of the project.



Location			Tree Growth			Canopy Cover			Biomass		
Group Identifier	Tree Group Characteristics	Initial Number of Trees	DBH (The estimated DBH at the end of the projection) (")	Height (The estimated tree height at the end of the projection) (")	Surviving Trees (The number of trees that survive at the end of the projection based on the mortality rate. The number of estimated fractions of individual trees remaining after mortality for the most precise estimates of the heights.)	Basal Area (The estimated combined basal area of surviving trees at the end of the projection) (")	Canopy Cover (The estimated combined canopy cover at the end of the projection. The combined canopy cover estimate assumes no overlap between tree crowns and represents the maximum area that these trees could possibly cover at the projection)	Biomass (The estimated combined biomass of surviving trees at the end of the projection) (pounds)			
1	120 California sycamore (Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	120	14.3	52.7	37	40.9	19,374.2	14.5			
2	60 Red stem dogwood (Cornus sericea ssp. sericea) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	60	16.7	32.5	18	27.7	11,965.4	17.9			
3	20 Ginkgo (Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 20-35 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	14.3	57.9	6.1	6.8	2,444.9	1.7			
5	20 Bigleaf maple (Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	25.0	75.6	6.1	20.8	6,979.4	13.0			
6	40 Saucer magnolia (Magnolia x soulangeana) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 20-35 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	40	16.7	42.7	12	18.5	7,853.1	14.0			
7	10 Flowering dogwood (Cornus florida) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 0-19 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	16.7	33.2	3.0	4.6	2,510.9	3.1			
8	10 Bay laurel (Laurus nobilis) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	14.3	58.7	3.0	3.4	1,372.1	5.7			
9	10 Trident maple (Acer buergerianum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	16.7	61.0	3.0	4.6	1,527.2	4.1			
10	10 Saucer magnolia (Magnolia x soulangeana) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	16.7	42.7	3.0	4.6	1,983.3	3.5			
11	10 Chastetree spp (lex) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	16.7	41.0	3.0	4.6	1,293.5	2.4			

Location	Tree Growth				Surviving Trees (The number of trees that survive at the end of the projection based on the mortality rate. The models do estimate fractions of individual trees remaining after mortality for the most precise estimations of the benefits.)	Basal Area (The estimated combined basal area of surviving trees at the end of the projection.)	Canopy Cover (The estimated combined crown area of surviving trees at the end of the projection. This combined crown area estimate assumes no overlap between tree crowns and represents the minimum area that these trees could possibly cover.)	Biomass (The estimated combined biomass of surviving trees at the end of the projection.) (pounds)
Group Identifier	Tree Group Characteristics	Initial Number of Trees	DBH (The estimated DBH at the end of the projection) (")	Height (The estimated tree height at the end of the projection) (')	Surviving Trees (The number of trees that survive at the end of the projection based on the mortality rate. The models do estimate fractions of individual trees remaining after mortality for the most precise estimations of the benefits.)	Basal Area (The estimated combined basal area of surviving trees at the end of the projection.)	Canopy Cover (The estimated combined crown area of surviving trees at the end of the projection. This combined crown area estimate assumes no overlap between tree crowns and represents the minimum area that these trees could possibly cover.)	Biomass (The estimated combined biomass of surviving trees at the end of the projection.) (pounds)
12	10 Ginkgo (Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	14.3	57.9	3.0	3.4	1,222.5	0.9
13	20 Japanese maple (Acer palmatum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	14.0	25.9	6.1	6.5	2,567.1	3.5
14	20 California redbud (Cercis orbiculata) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	17.9	62.4	6.1	10.6	3,983.8	6.7
15	20 Dogwood spp (Cornus) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	16.7	32.5	6.1	9.2	3,877.1	6.0
16	10 California sycamore (Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	14.3	52.7	3.0	3.4	1,614.5	1.2
17	20 Bigleaf maple (Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	25.0	75.6	6.1	20.8	6,979.4	13.0
Total		410			125	190.5	77,528.5	111.3

Location		CO ₂ (Carbon Dioxide) Benefits			
Group Identifier	Tree Group Characteristics	Initial Number of Trees	CO ₂ (Carbon Dioxide) Avoided (pounds)	CO ₂ Sequestered (pounds)	CO ₂ Sequestered (\$)
1	120 California sycamore(Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	120	\$0.00	83,461.9	\$4,907.24
2	60 Red stem dogwood(Cornus sericea ssp. sericea) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	60	\$0.00	111,448.8	\$6,576.46
3	20 Ginkgo(Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 20-39 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	\$1,013.95	9,768.7	\$576.44
5	20 Bigleaf maple(Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	\$0.00	75,220.3	\$4,439.21
6	40 Sauer magnolia(Magnolia x soulangeana) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 20-39 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	40	\$1,516.37	86,637.2	\$5,112.32
7	10 Flowering dogwood(Cornus florida) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	\$233.86	19,488.5	\$1,149.98
8	10 Bay laurel(Laurus nobilis) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	\$0.00	32,648.0	\$1,026.51
9	10 Tidient maple(Acer buergerianum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	\$0.00	25,914.8	\$1,529.19
10	10 Sauer magnolia(Magnolia x soulangeana) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	\$0.00	21,659.3	\$1,278.08
11	10 Chastetree spp(Virex) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	\$0.00	15,286.8	\$902.05
12	10 Ginkgo(Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	\$0.00	4,884.4	\$288.22
13	20 Japanese maple(Acer palmatum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	\$0.00	20,465.0	\$1,207.60
14	20 California redbud(Cercis orbiculata) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	\$0.00	44,732.4	\$2,639.58
15	20 Dogwood spp(Cornus) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	\$0.00	37,149.9	\$2,192.15
16	10 California sycamore(Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	\$0.00	6,930.2	\$408.94
17	20 Bigleaf maple(Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	\$0.00	75,220.3	\$4,439.21
Total		410	\$2,764.18	670,637.4	\$39,573.18

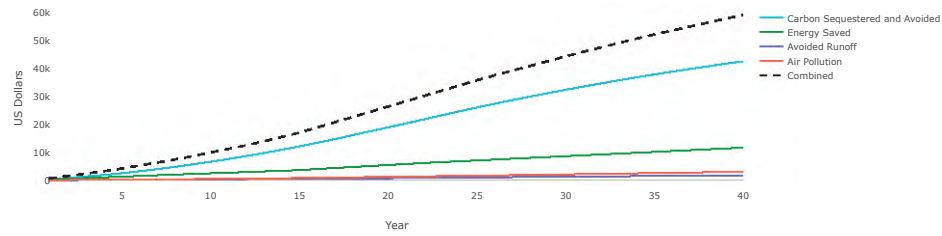
Location		Energy Benefits				
Group Identifier	Tree Group Characteristics	Initial Number of Trees	Electricity Saved (kWh/Year/Unit/Hours)	Electricity Saved (\$)	Fuel Saved (MMBtu/Year/Units)	Fuel Saved (\$)
1	120 California sycamore(Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	120	0.0	\$0.00	0.0	\$0.00
2	60 Red stem dogwood(Cornus sericea ssp. sericea) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	60	0.0	\$0.00	0.0	\$0.00
3	20 Gingko(Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted 20-39 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	17,098.1	\$3,499.97	58.8	\$761.10
5	20 Bigleaf maple(Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	0.0	\$0.00	0.0	\$0.00
6	40 Sawzer magnolia(Magnolia x soulangiana) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted 20-39 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	40	25,435.7	\$5,206.69	88.7	\$1,147.52
7	10 Flowering dogwood(Cornus florida) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	4,021.9	\$823.29	13.1	\$170.13
8	10 Bay laurel(Laurus nobilis) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	0.0	\$0.00	0.0	\$0.00
9	10 Trident maple(Acer buergerianum) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	0.0	\$0.00	0.0	\$0.00
10	10 Sawzer magnolia(Magnolia x soulangiana) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	0.0	\$0.00	0.0	\$0.00
11	10 Chastetree spp(Virex) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	0.0	\$0.00	0.0	\$0.00
12	10 Gingko(Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	0.0	\$0.00	0.0	\$0.00
13	20 Japanese maple(Acer palmatum) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	0.0	\$0.00	0.0	\$0.00
14	20 California redbud(Cercis orbiculata) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	0.0	\$0.00	0.0	\$0.00
15	20 Dogwood spp(Cornus) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	0.0	\$0.00	0.0	\$0.00
16	10 California sycamore(Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	0.0	\$0.00	0.0	\$0.00
17	20 Bigleaf maple(Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height): - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	0.0	\$0.00	0.0	\$0.00
Total		410	46,555.7	\$9,529.95	180.7	\$2,078.76

Location		Hydrological Benefits					
Group Identifier	Tree Group Characteristics	Initial Number of Trees	Rainfall Interception (gallons)	Evaporation (gallons)	Transpiration (gallons)	Runoff Avoided (gallons)	Runoff Avoided (\$)
1	120 California sycamore(Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	120	1,178,691.9	1,173,058.5	2,018,878.5	49,686.3	\$444.00
2	60 Red stem dogwood(Cornus sericea ssp. sericea) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	60	784,121.1	760,469.1	1,308,786.3	32,210.6	\$287.83
3	20 Ginkgo(Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 20-39 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	153,747.4	153,012.6	283,340.5	6,481.0	\$57.91
5	20 Bigleaf maple/Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	353,145.9	351,458.1	604,872.9	14,886.4	\$133.03
6	40 Saucer magnolia(Magnolia x soulangeana) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 20-39 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	40	508,938.8	506,504.4	871,713.3	21,453.6	\$191.71
7	10 Flowering dogwood(Cornus florida) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted 0-19 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	151,816.5	151,090.9	280,033.2	6,399.6	\$57.19
8	10 Bay Laurel(Laurus nobilis) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	86,628.1	86,214.1	148,377.7	3,651.7	\$32.63
9	10 Tidland maple/Acer buergerianum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	101,212.8	100,729.1	173,356.6	4,266.5	\$38.13
10	10 Saucer magnolia(Magnolia x soulangeana) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	127,234.2	126,626.1	217,928.3	5,363.4	\$47.93
11	10 Chastetree spp(Vlex) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	77,348.6	76,978.9	132,483.6	3,260.5	\$29.14
12	10 Ginkgo(Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	76,873.7	76,506.3	131,670.2	3,240.5	\$28.96
13	20 Japanese maple/Acer palmatum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	154,932.1	154,191.7	285,369.7	6,531.0	\$56.36
14	20 California redbud(Cercis orbiculata) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	287,811.9	286,237.3	492,825.4	12,123.9	\$108.34
15	20 Dogwood spp(Cornus) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	248,957.0	247,767.1	426,416.7	10,484.5	\$93.78
16	10 California sycamore(Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	98,224.3	97,754.9	168,239.9	4,140.5	\$37.00
17	20 Bigleaf maple/Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	353,145.9	351,458.1	604,872.9	14,886.4	\$133.03
Total		410	4,725,628.3	4,700,057.2	8,088,977.5	199,076.7	\$1,778.95

Location	Group Identifier	Tree Group Characteristics	Initial Number of Trees	Air Benefits			NO ₂ (Nitrogen Dioxide) Removed (pounds)	SO ₂ (Sulfur Dioxide) Avoided (pounds)	SO ₂ (Sulfur Dioxide) Removed (pounds)	VOC (Volatile Organic Compounds) Avoided (pounds)	PM _{2.5} (Particulate matter smaller than 2.5 micrometers in diameter) Avoided (pounds)	PM _{2.5} (Particulate matter smaller than 2.5 micrometers in diameter) Removed (pounds)	Avoided Value (Values for avoided pollutants) (\$)	Removed Value (Values for removed pollutants) (\$)
1	• 120 California sycamore (Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		120	467.47	0.00	26.66	0.00	10.08	0.00	0.00	2.80	\$764.00		
2	• 60 Red stem dogwood (Cornus sericea ssp. sericea) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		60	255.67	0.00	14.44	0.00	5.61	0.00	0.00	1.41	\$413.84		
3	• 20 Gingko (Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted 20-39 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		20	53.87	1.24	3.05	4.35	1.18	8.88	5.61	0.30	\$87.39		
5	• 20 Bigleaf maple (Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		20	144.57	0.00	8.26	0.00	3.11	0.00	0.00	0.88	\$236.68		
6	• 40 Saucer magnolia (Magnolia x soulangeana) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted 20-39 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		40	199.09	1.85	11.34	6.50	4.30	13.22	8.34	1.18	\$324.98		
7	• 10 Flowering dogwood (Cornus florida) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted 0-19 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		10	51.14	0.29	2.89	1.00	1.12	2.09	1.32	0.28	\$82.80		
8	• 10 Bay laurel (Laurus nobilis) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		10	44.98	0.00	3.50	0.00	1.09	0.00	0.00	0.58	\$146.54		
9	• 10 Trident maple (Acer buergerianum) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		10	41.94	0.00	2.40	0.00	0.90	0.00	0.00	0.26	\$68.73		
10	• 10 Saucer magnolia (Magnolia x soulangeana) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		10	49.77	0.00	2.84	0.00	1.08	0.00	0.00	0.30	\$81.25		
11	• 10 Chastetree spp (Vlex) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		10	25.72	0.00	1.45	0.00	0.57	0.00	0.00	0.14	\$41.59		
12	• 10 Gingko (Ginkgo biloba) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		10	26.93	0.00	1.52	0.00	0.59	0.00	0.00	0.15	\$43.69		
13	• 20 Japanese maple (Acer palmatum) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		20	51.22	0.00	2.89	0.00	1.13	0.00	0.00	0.28	\$82.84		
14	• 20 California redbud (Cercis orbiculata) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		20	103.36	0.00	5.86	0.00	2.25	0.00	0.00	0.59	\$167.90		
15	• 20 Dogwood spp (Cornus) trees of 2 inches initial DBH (Diameter at Breast Height). • Planted >60 feet and north (N) of buildings that were built post-1980 with heating and cooling. • Trees are in excellent condition and planted in full sun.		20	83.31	0.00	4.70	0.00	1.83	0.00	0.00	0.46	\$134.85		

Location		Air Benefits											
Group Identifier	Tree Group Characteristics	Initial Number of Trees	CO ₂ (Ozone) Removed (pounds)	NO ₂ (Nitrogen Dioxide) Avoided (pounds)	NO ₂ (Nitrogen Dioxide) Removed (pounds)	SO ₂ (Sulfur Dioxide) Avoided (pounds)	SO ₂ (Sulfur Dioxide) Removed (pounds)	VOC (Volatile Organic Compounds) Avoided (pounds)	PM _{2.5} (Particulate matter smaller than 2.5 microns in diameter) Avoided (pounds)	PM _{2.5} (Particulate matter smaller than 2.5 microns in diameter) Removed (pounds)	Avoided Value (Values for avoided pollutants) (\$)	Removed Value (Values for removed pollutants) (\$)	
16	10 California sycamores (Platanus racemosa) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	10	38.96	0.00	2.22	0.00	0.84	0.00	0.00	0.23	\$0.00	\$63.67	
17	20 Bigleaf maple (Acer macrophyllum) trees of 2 inches initial DBH (Diameter at Breast Height). - Planted >60 feet and north (0°) of buildings that were built post-1980 with heating and cooling. - Trees are in excellent condition and planted in full sun.	20	144.57	0.00	8.26	0.00	3.11	0.00	0.00	0.88	\$0.00	\$236.68	
Total		410	1,782.54	3.37	102.28	11.86	38.77	24.19	15.27	10.72	\$63.83	\$2,979.43	

Cumulative i-Tree Benefits Over Time



Mortality is modeled as a fractional (not whole) tree estimate and may not align year-over-year.

Sequestration does not account for net differences like decay.

Tree canopy cover estimate assumes no overlap between crowns.

Application v2.7.2, powered by engine v0.19.0 (APIv3) and database v12.0.90.



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Version 2.7.2