Appendix B1

California Emission Estimator Model (CalEEMod) Output Files

GSNR Lassen Facility - Mitigated Con Mitigated Op v2 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GSNR Lassen Facility - Mitigated Con Mitigated Op v2
Construction Start Date	10/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	45.8
Location	41.09799317835092, -121.17825209501598
County	Lassen
City	Unincorporated
Air District	Lassen County APCD
Air Basin	Northeast Plateau
TAZ	122
EDFZ	3
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.28

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
Manufacturing	307	1000sqft	112	306,740	0.00	—	—	—

Parking Lot	5.00	Acre	5.00	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	40.6	Acre	40.6	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

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.	175	172	156	186	0.37	4.77	14.3	19.0	4.41	4.33	8.73	—	47,767	47,767	1.36	2.77	68.7	48,692
Mit.	144	142	95.4	201	0.37	2.26	14.3	16.5	2.12	4.33	6.41	—	47,767	47,767	1.36	2.77	68.7	48,692
% Reduced	18%	17%	39%	-8%	—	53%	—	13%	52%	—	27%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	173	170	169	194	0.40	5.13	14.9	20.0	4.74	4.49	9.23	—	50,286	50,286	1.46	2.94	1.83	51,200
Mit.	143	141	104	209	0.40	2.34	14.9	17.3	2.20	4.49	6.69	—	50,286	50,286	1.46	2.94	1.83	51,200
% Reduced	17%	17%	39%	-8%	—	54%	—	14%	54%	—	28%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	35.1	33.2	94.5	111	0.22	2.80	7.57	10.4	2.59	2.13	4.71	—	29,091	29,091	0.84	1.67	18.3	29,629
Mit.	27.6	26.5	61.9	121	0.22	1.44	7.57	9.01	1.35	2.13	3.48	—	29,091	29,091	0.84	1.67	18.3	29,629
% Reduced	21%	20%	34%	-9%	—	48%	—	13%	48%	—	26%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.40	6.06	17.2	20.3	0.04	0.51	1.38	1.89	0.47	0.39	0.86	—	4,816	4,816	0.14	0.28	3.03	4,905
Mit.	5.04	4.83	11.3	22.2	0.04	0.26	1.38	1.64	0.25	0.39	0.64	—	4,816	4,816	0.14	0.28	3.03	4,905
% Reduced	21%	20%	34%	-9%	—	48%	—	13%	48%	—	26%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	175	172	156	186	0.37	4.77	14.3	19.0	4.41	4.33	8.73	—	47,767	47,767	1.36	2.77	68.7	48,692
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	7.21	6.04	63.6	60.9	0.11	2.56	9.50	12.1	2.34	4.05	6.39	—	13,389	13,389	0.41	0.65	0.32	13,594
2025	173	170	169	194	0.40	5.13	14.9	20.0	4.74	4.49	9.23	—	50,286	50,286	1.46	2.94	1.83	51,200
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.70	0.59	6.31	6.16	0.01	0.25	0.91	1.16	0.23	0.37	0.60	—	1,456	1,456	0.04	0.08	0.63	1,482
2025	35.1	33.2	94.5	111	0.22	2.80	7.57	10.4	2.59	2.13	4.71	—	29,091	29,091	0.84	1.67	18.3	29,629
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.13	0.11	1.15	1.12	< 0.005	0.05	0.17	0.21	0.04	0.07	0.11	—	241	241	0.01	0.01	0.10	245
2025	6.40	6.06	17.2	20.3	0.04	0.51	1.38	1.89	0.47	0.39	0.86	—	4,816	4,816	0.14	0.28	3.03	4,905

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	144	142	95.4	201	0.37	2.26	14.3	16.5	2.12	4.33	6.41	—	47,767	47,767	1.36	2.77	68.7	48,692
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.31	1.22	13.0	56.0	0.11	0.23	9.50	9.74	0.22	4.05	4.27	—	13,389	13,389	0.41	0.65	0.32	13,594
2025	143	141	104	209	0.40	2.34	14.9	17.3	2.20	4.49	6.69	—	50,286	50,286	1.46	2.94	1.83	51,200
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.14	0.13	1.49	5.81	0.01	0.03	0.91	0.93	0.02	0.37	0.39	—	1,456	1,456	0.04	0.08	0.63	1,482
2025	27.6	26.5	61.9	121	0.22	1.44	7.57	9.01	1.35	2.13	3.48	—	29,091	29,091	0.84	1.67	18.3	29,629
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.03	0.02	0.27	1.06	< 0.005	< 0.005	0.17	0.17	< 0.005	0.07	0.07	—	241	241	0.01	0.01	0.10	245
2025	5.04	4.83	11.3	22.2	0.04	0.26	1.38	1.64	0.25	0.39	0.64	—	4,816	4,816	0.14	0.28	3.03	4,905

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.	10.1	9.96	5.84	37.2	0.08	0.11	3.40	3.51	0.11	0.87	0.98	1,878	88,307	90,185	269	2.17	94.9	97,658
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.1	9.95	6.48	35.6	0.08	0.11	3.40	3.51	0.11	0.87	0.98	1,878	88,110	89,988	269	2.19	80.2	97,453

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.0	9.92	5.98	33.7	0.08	0.11	3.30	3.41	0.11	0.84	0.95	1,878	87,877	89,755	269	2.17	86.3	97,222
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.83	1.81	1.09	6.15	0.01	0.02	0.60	0.62	0.02	0.15	0.17	311	14,549	14,860	44.6	0.36	14.3	16,096

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	0.69	0.59	4.14	13.0	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	5,038	5,038	0.07	0.34	15.0	5,156
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	0.33	0.33	1.70	24.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,449	3,449	0.14	0.03	—	3,461
Total	10.1	9.96	5.84	37.2	0.08	0.11	3.40	3.51	0.11	0.87	0.98	1,878	88,307	90,185	269	2.17	94.9	97,658
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.68	0.58	4.78	11.4	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	4,842	4,842	0.07	0.36	0.39	4,951
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	0.33	0.33	1.70	24.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,449	3,449	0.14	0.03	—	3,461
Total	10.1	9.95	6.48	35.6	0.08	0.11	3.40	3.51	0.11	0.87	0.98	1,878	88,110	89,988	269	2.19	80.2	97,453
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.68	0.57	4.42	11.5	0.05	0.05	3.30	3.35	0.05	0.84	0.89	—	4,892	4,892	0.07	0.35	6.48	5,004
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	0.30	0.30	1.56	22.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,165	3,165	0.13	0.03	—	3,176
Total	10.0	9.92	5.98	33.7	0.08	0.11	3.30	3.41	0.11	0.84	0.95	1,878	87,877	89,755	269	2.17	86.3	97,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.12	0.10	0.81	2.10	0.01	0.01	0.60	0.61	0.01	0.15	0.16	—	810	810	0.01	0.06	1.07	829
Area	1.65	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,201	13,201	2.14	0.26	—	13,332
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2
Off-Road	0.05	0.05	0.28	4.05	0.01	0.01	—	0.01	0.01	—	0.01	—	524	524	0.02	< 0.005	—	526
Total	1.83	1.81	1.09	6.15	0.01	0.02	0.60	0.62	0.02	0.15	0.17	311	14,549	14,860	44.6	0.36	14.3	16,096

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	0.69	0.59	4.14	13.0	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	5,038	5,038	0.07	0.34	15.0	5,156
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	0.33	0.33	1.70	24.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,449	3,449	0.14	0.03	—	3,461
Total	10.1	9.96	5.84	37.2	0.08	0.11	3.40	3.51	0.11	0.87	0.98	1,878	88,307	90,185	269	2.17	94.9	97,658
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.68	0.58	4.78	11.4	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	4,842	4,842	0.07	0.36	0.39	4,951
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	0.33	0.33	1.70	24.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,449	3,449	0.14	0.03	—	3,461
Total	10.1	9.95	6.48	35.6	0.08	0.11	3.40	3.51	0.11	0.87	0.98	1,878	88,110	89,988	269	2.19	80.2	97,453
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.68	0.57	4.42	11.5	0.05	0.05	3.30	3.35	0.05	0.84	0.89	—	4,892	4,892	0.07	0.35	6.48	5,004
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	0.30	0.30	1.56	22.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,165	3,165	0.13	0.03	—	3,176
Total	10.0	9.92	5.98	33.7	0.08	0.11	3.30	3.41	0.11	0.84	0.95	1,878	87,877	89,755	269	2.17	86.3	97,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.12	0.10	0.81	2.10	0.01	0.01	0.60	0.61	0.01	0.15	0.16	—	810	810	0.01	0.06	1.07	829
Area	1.65	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,201	13,201	2.14	0.26	—	13,332
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2
Off-Road	0.05	0.05	0.28	4.05	0.01	0.01	—	0.01	0.01	—	0.01	—	524	524	0.02	< 0.005	—	526
Total	1.83	1.81	1.09	6.15	0.01	0.02	0.60	0.62	0.02	0.15	0.17	311	14,549	14,860	44.6	0.36	14.3	16,096

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.62	9.62	< 0.005	< 0.005	< 0.005	10.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.36	2.17	< 0.005	0.11	—	0.11	0.10	—	0.10	—	348	348	0.01	< 0.005	—	349
Dust From Material Movement	—	—	—	—	—	—	0.34	0.34	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.43	0.40	< 0.005	0.02	—	0.02	0.02	—	0.02	—	57.7	57.7	< 0.005	< 0.005	—	57.8
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.14	0.33	2.88	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	480	480	0.02	0.02	0.06	486

Vendor	0.05	0.04	1.97	0.36	0.01	0.02	0.26	0.28	0.01	0.07	0.08	—	999	999	0.01	0.14	0.07	1,041
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.19	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.1	32.1	< 0.005	< 0.005	0.06	32.5
Vendor	< 0.005	< 0.005	0.12	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	65.7	65.7	< 0.005	0.01	0.07	68.5
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	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.32	5.32	< 0.005	< 0.005	0.01	5.38
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3
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	0.00

3.2. Site Preparation (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.62	9.62	< 0.005	< 0.005	< 0.005	10.1

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	1.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	348	348	0.01	< 0.005	—	349
Dust From Material Movement	—	—	—	—	—	—	0.34	0.34	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	57.7	57.7	< 0.005	< 0.005	—	57.8
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.14	0.33	2.88	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	480	480	0.02	0.02	0.06	486
Vendor	0.05	0.04	1.97	0.36	0.01	0.02	0.26	0.28	0.01	0.07	0.08	—	999	999	0.01	0.14	0.07	1,041
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.19	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.1	32.1	< 0.005	< 0.005	0.06	32.5

Vendor	< 0.005	< 0.005	0.12	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	65.7	65.7	< 0.005	0.01	0.07	68.5
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	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.32	5.32	< 0.005	< 0.005	0.01	5.38
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3
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	0.00

3.3. Rail Spurs Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.56	9.56	< 0.005	< 0.005	0.01	10.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385

Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.47	9.47	< 0.005	< 0.005	< 0.005	9.92
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.71	5.63	0.01	0.24	—	0.24	0.22	—	0.22	—	1,201	1,201	0.05	0.01	—	1,206
Dust From Material Movement	—	—	—	—	—	—	0.61	0.61	—	0.31	0.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	3.39	3.39	< 0.005	< 0.005	< 0.005	3.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.04	1.03	< 0.005	0.04	—	0.04	0.04	—	0.04	—	199	199	0.01	< 0.005	—	200
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.11	1.68	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	279	279	0.01	0.01	1.10	283
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.09	0.08	0.17	1.47	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	262	262	0.01	0.01	0.03	265
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.05	0.53	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	94.8	94.8	< 0.005	< 0.005	0.17	95.9
Vendor	0.02	0.01	0.61	0.11	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	350	350	< 0.005	0.05	0.39	365
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	< 0.005	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.03	15.9
Vendor	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.9	57.9	< 0.005	0.01	0.07	60.4
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	0.00

3.4. Rail Spurs Construction (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	1.65	18.4	0.03	0.06	—	0.06	0.06	—	0.06	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.56	9.56	< 0.005	< 0.005	0.01	10.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	1.65	18.4	0.03	0.06	—	0.06	0.06	—	0.06	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.47	9.47	< 0.005	< 0.005	< 0.005	9.92
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	0.59	6.56	0.01	0.02	—	0.02	0.02	—	0.02	—	1,201	1,201	0.05	0.01	—	1,206
Dust From Material Movement	—	—	—	—	—	—	0.61	0.61	—	0.31	0.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	3.39	3.39	< 0.005	< 0.005	< 0.005	3.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	1.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	199	199	0.01	< 0.005	—	200
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.11	1.68	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	279	279	0.01	0.01	1.10	283
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.09	0.08	0.17	1.47	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	262	262	0.01	0.01	0.03	265
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.05	0.53	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	94.8	94.8	< 0.005	< 0.005	0.17	95.9
Vendor	0.02	0.01	0.61	0.11	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	350	350	< 0.005	0.05	0.39	365
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	< 0.005	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.03	15.9
Vendor	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.9	57.9	< 0.005	0.01	0.07	60.4
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	0.00

3.5. Grading (Including Utilities) (2024) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.9	21.4	0.03	0.89	—	0.89	0.82	—	0.82	—	3,425	3,425	0.14	0.03	—	3,437
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.08	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	24.1	24.1	< 0.005	< 0.005	< 0.005	25.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	2.89	3.26	< 0.005	0.14	—	0.14	0.12	—	0.12	—	523	523	0.02	< 0.005	—	525
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.53	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	86.6	86.6	< 0.005	< 0.005	—	86.9
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.13	0.29	2.56	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	427	427	0.02	0.01	0.05	432
Vendor	0.05	0.04	1.97	0.36	0.01	0.02	0.26	0.28	0.01	0.07	0.08	—	999	999	0.01	0.14	0.07	1,041
Hauling	0.05	0.05	3.85	0.33	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,729	1,729	< 0.005	0.27	0.08	1,809
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.04	0.39	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	66.2	66.2	< 0.005	< 0.005	0.12	67.1
Vendor	0.01	0.01	0.29	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	< 0.005	0.02	0.17	159
Hauling	0.01	0.01	0.56	0.05	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	264	264	< 0.005	0.04	0.20	276
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.02	11.1
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	< 0.005	< 0.005	0.03	26.3
Hauling	< 0.005	< 0.005	0.10	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	43.7	43.7	< 0.005	0.01	0.03	45.7

3.6. Grading (Including Utilities) (2024) - Mitigated

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

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

Off-Road Equipment	0.32	0.32	1.68	21.0	0.03	0.06	—	0.06	0.06	—	0.06	—	3,425	3,425	0.14	0.03	—	3,437
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.08	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	24.1	24.1	< 0.005	< 0.005	< 0.005	25.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.26	3.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	523	523	0.02	< 0.005	—	525
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	86.6	86.6	< 0.005	< 0.005	—	86.9
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.13	0.29	2.56	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	427	427	0.02	0.01	0.05	432
Vendor	0.05	0.04	1.97	0.36	0.01	0.02	0.26	0.28	0.01	0.07	0.08	—	999	999	0.01	0.14	0.07	1,041
Hauling	0.05	0.05	3.85	0.33	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,729	1,729	< 0.005	0.27	0.08	1,809
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.04	0.39	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	66.2	66.2	< 0.005	< 0.005	0.12	67.1
Vendor	0.01	0.01	0.29	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	< 0.005	0.02	0.17	159
Hauling	0.01	0.01	0.56	0.05	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	264	264	< 0.005	0.04	0.20	276
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.02	11.1
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	< 0.005	< 0.005	0.03	26.3
Hauling	< 0.005	< 0.005	0.10	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	43.7	43.7	< 0.005	0.01	0.03	45.7

3.7. Grading (Including Utilities) (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.83	16.8	20.4	0.03	0.76	—	0.76	0.70	—	0.70	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.19	0.07	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	23.9	23.9	< 0.005	< 0.005	0.02	25.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.83	16.8	20.4	0.03	0.76	—	0.76	0.70	—	0.70	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.08	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	23.7	23.7	< 0.005	< 0.005	< 0.005	24.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.48	4.43	5.40	0.01	0.20	—	0.20	0.19	—	0.19	—	905	905	0.04	0.01	—	908
Dust From Material Movement	—	—	—	—	—	—	0.49	0.49	—	0.24	0.24	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	6.29	6.29	< 0.005	< 0.005	< 0.005	6.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.81	0.99	< 0.005	0.04	—	0.04	0.03	—	0.03	—	150	150	0.01	< 0.005	—	150
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.09

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.18	2.69	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	446	446	0.02	0.01	1.75	453
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
Hauling	0.05	0.04	3.34	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	2.99	1,780
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.27	2.35	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	419	419	0.02	0.01	0.05	423
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.05	0.04	3.60	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	0.08	1,777
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.06	0.63	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	112	112	< 0.005	< 0.005	0.20	114
Vendor	0.01	0.01	0.45	0.08	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	259	259	< 0.005	0.04	0.29	271
Hauling	0.01	0.01	0.91	0.08	0.01	0.01	0.11	0.12	0.01	0.03	0.04	—	448	448	< 0.005	0.07	0.34	470
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	0.03	18.9
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.9	42.9	< 0.005	0.01	0.05	44.8
Hauling	< 0.005	< 0.005	0.17	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.2	74.2	< 0.005	0.01	0.06	77.8

3.8. Grading (Including Utilities) (2025) - Mitigated

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

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

Off-Road	0.32	0.32	1.68	21.0	0.03	0.06	—	0.06	0.06	—	0.06	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.07	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	23.9	23.9	< 0.005	< 0.005	0.02	25.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	1.68	21.0	0.03	0.06	—	0.06	0.06	—	0.06	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.08	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	23.7	23.7	< 0.005	< 0.005	< 0.005	24.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.44	5.56	0.01	0.02	—	0.02	0.02	—	0.02	—	905	905	0.04	0.01	—	908
Dust From Material Movement	—	—	—	—	—	—	0.49	0.49	—	0.24	0.24	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	6.29	6.29	< 0.005	< 0.005	< 0.005	6.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.08	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	150	150	0.01	< 0.005	—	150

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.09
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.18	2.69	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	446	446	0.02	0.01	1.75	453
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
Hauling	0.05	0.04	3.34	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	2.99	1,780
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.27	2.35	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	419	419	0.02	0.01	0.05	423
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.05	0.04	3.60	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	0.08	1,777
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.06	0.63	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	112	112	< 0.005	< 0.005	0.20	114
Vendor	0.01	0.01	0.45	0.08	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	259	259	< 0.005	0.04	0.29	271
Hauling	0.01	0.01	0.91	0.08	0.01	0.01	0.11	0.12	0.01	0.03	0.04	—	448	448	< 0.005	0.07	0.34	470
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	0.03	18.9
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.9	42.9	< 0.005	0.01	0.05	44.8
Hauling	< 0.005	< 0.005	0.17	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.2	74.2	< 0.005	0.01	0.06	77.8

3.9. Building/Vertical Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	12.5	10.4	91.7	107	0.19	3.09	—	3.09	2.85	—	2.85	—	18,212	18,212	0.74	0.15	—	18,275
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	12.5	10.4	91.7	107	0.19	3.09	—	3.09	2.85	—	2.85	—	18,212	18,212	0.74	0.15	—	18,275
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.17	6.81	60.1	70.0	0.13	2.03	—	2.03	1.86	—	1.86	—	11,925	11,925	0.48	0.10	—	11,966
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	1.24	11.0	12.8	0.02	0.37	—	0.37	0.34	—	0.34	—	1,974	1,974	0.08	0.02	—	1,981
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.91	1.57	2.20	33.7	0.00	0.00	5.00	5.00	0.00	1.17	1.17	—	5,578	5,578	0.20	0.17	21.9	5,657
Vendor	0.56	0.46	21.6	4.23	0.09	0.17	3.36	3.53	0.17	0.90	1.08	—	12,758	12,758	0.09	1.81	33.3	13,335
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	1.72	1.53	3.36	29.4	0.00	0.00	5.00	5.00	0.00	1.17	1.17	—	5,233	5,233	0.23	0.18	0.57	5,292
Vendor	0.55	0.46	23.5	4.13	0.09	0.17	3.36	3.53	0.17	0.90	1.08	—	12,757	12,757	0.09	1.81	0.87	13,301
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	1.12	1.00	1.77	19.5	0.00	0.00	3.18	3.18	0.00	0.74	0.74	—	3,484	3,484	0.14	0.11	6.20	3,528
Vendor	0.36	0.30	14.6	2.74	0.06	0.11	2.15	2.26	0.11	0.58	0.69	—	8,354	8,354	0.06	1.19	9.42	8,719
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.18	0.32	3.56	0.00	0.00	0.58	0.58	0.00	0.14	0.14	—	577	577	0.02	0.02	1.03	584
Vendor	0.07	0.06	2.67	0.50	0.01	0.02	0.39	0.41	0.02	0.11	0.13	—	1,383	1,383	0.01	0.20	1.56	1,443
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building/Vertical Construction (2025) - Mitigated

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

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

Off-Road Equipm	9.26	7.83	61.1	118	0.19	1.87	—	1.87	1.73	—	1.73	—	18,212	18,212	0.74	0.15	—	18,275
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.26	7.83	61.1	118	0.19	1.87	—	1.87	1.73	—	1.73	—	18,212	18,212	0.74	0.15	—	18,275
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.06	5.13	40.0	77.5	0.13	1.22	—	1.22	1.13	—	1.13	—	11,925	11,925	0.48	0.10	—	11,966
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.94	7.30	14.1	0.02	0.22	—	0.22	0.21	—	0.21	—	1,974	1,974	0.08	0.02	—	1,981
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.91	1.57	2.20	33.7	0.00	0.00	5.00	5.00	0.00	1.17	1.17	—	5,578	5,578	0.20	0.17	21.9	5,657
Vendor	0.56	0.46	21.6	4.23	0.09	0.17	3.36	3.53	0.17	0.90	1.08	—	12,758	12,758	0.09	1.81	33.3	13,335
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	1.72	1.53	3.36	29.4	0.00	0.00	5.00	5.00	0.00	1.17	1.17	—	5,233	5,233	0.23	0.18	0.57	5,292
Vendor	0.55	0.46	23.5	4.13	0.09	0.17	3.36	3.53	0.17	0.90	1.08	—	12,757	12,757	0.09	1.81	0.87	13,301
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	1.12	1.00	1.77	19.5	0.00	0.00	3.18	3.18	0.00	0.74	0.74	—	3,484	3,484	0.14	0.11	6.20	3,528
Vendor	0.36	0.30	14.6	2.74	0.06	0.11	2.15	2.26	0.11	0.58	0.69	—	8,354	8,354	0.06	1.19	9.42	8,719
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.18	0.32	3.56	0.00	0.00	0.58	0.58	0.00	0.14	0.14	—	577	577	0.02	0.02	1.03	584
Vendor	0.07	0.06	2.67	0.50	0.01	0.02	0.39	0.41	0.02	0.11	0.13	—	1,383	1,383	0.01	0.20	1.56	1,443
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Utility Line Stringing (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	1.53	15.1	11.5	0.03	0.61	—	0.61	0.56	—	0.56	—	3,530	3,530	0.14	0.03	—	3,543
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.65	2.78	0.01	0.15	—	0.15	0.14	—	0.14	—	851	851	0.03	0.01	—	854
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.67	0.51	< 0.005	0.03	—	0.03	0.02	—	0.02	—	141	141	0.01	< 0.005	—	141
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.19	0.26	4.04	0.00	0.00	0.60	0.60	0.00	0.14	0.14	—	669	669	0.02	0.02	2.63	679
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.05	0.04	0.08	0.86	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	154	154	0.01	0.01	0.27	156
Vendor	0.01	0.01	0.41	0.08	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	237	237	< 0.005	0.03	0.27	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.5	25.5	< 0.005	< 0.005	0.05	25.8
Vendor	< 0.005	< 0.005	0.08	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.2	39.2	< 0.005	0.01	0.04	40.9
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	0.00

3.12. Utility Line Stringing (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.52	3.39	18.1	0.03	0.13	—	0.13	0.12	—	0.12	—	3,530	3,530	0.14	0.03	—	3,543
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.13	0.82	4.35	0.01	0.03	—	0.03	0.03	—	0.03	—	851	851	0.03	0.01	—	854
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.79	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.23	0.19	0.26	4.04	0.00	0.00	0.60	0.60	0.00	0.14	0.14	—	669	669	0.02	0.02	2.63	679
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.05	0.04	0.08	0.86	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	154	154	0.01	0.01	0.27	156
Vendor	0.01	0.01	0.41	0.08	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	237	237	< 0.005	0.03	0.27	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.5	25.5	< 0.005	< 0.005	0.05	25.8
Vendor	< 0.005	< 0.005	0.08	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.2	39.2	< 0.005	0.01	0.04	40.9
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	0.00

3.13. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.86	1.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	174	174	0.01	< 0.005	—	175
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.8	28.8	< 0.005	< 0.005	—	28.9
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.27	2.35	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	419	419	0.02	0.01	0.05	423
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
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	0.02	0.01	0.02	0.27	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	49.0	49.0	< 0.005	< 0.005	0.09	49.6
Vendor	< 0.005	< 0.005	0.20	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.13	118
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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.11	8.11	< 0.005	< 0.005	0.01	8.21
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.7	18.7	< 0.005	< 0.005	0.02	19.5
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

3.14. Paving (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.27	1.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	174	174	0.01	< 0.005	—	175
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.01	0.01	0.05	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.8	28.8	< 0.005	< 0.005	—	28.9
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.27	2.35	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	419	419	0.02	0.01	0.05	423
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
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	0.02	0.01	0.02	0.27	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	49.0	49.0	< 0.005	< 0.005	0.09	49.6
Vendor	< 0.005	< 0.005	0.20	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.13	118
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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.11	8.11	< 0.005	< 0.005	0.01	8.21
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.7	18.7	< 0.005	< 0.005	0.02	19.5
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

3.15. Architectural Coating (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	157	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	157	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.8
Architectural Coatings	23.3	23.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.27	3.27	< 0.005	< 0.005	—	3.28
Architectural Coatings	4.25	4.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.41	0.57	8.75	0.00	0.00	1.30	1.30	0.00	0.30	0.30	—	1,450	1,450	0.05	0.05	5.70	1,471
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.45	0.40	0.87	7.63	0.00	0.00	1.30	1.30	0.00	0.30	0.30	—	1,360	1,360	0.06	0.05	0.15	1,376
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.10	1.14	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	205	205	0.01	0.01	0.36	207
Vendor	0.01	0.01	0.25	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	145	145	< 0.005	0.02	0.16	152
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	0.02	0.21	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.9	33.9	< 0.005	< 0.005	0.06	34.3
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.0	24.0	< 0.005	< 0.005	0.03	25.1
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	0.00

3.16. Architectural Coating (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	131	131	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	131	131	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.8

Architect Coatings	19.4	19.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.27	3.27	< 0.005	< 0.005	—	3.28
Architectural Coatings	3.53	3.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.41	0.57	8.75	0.00	0.00	1.30	1.30	0.00	0.30	0.30	—	1,450	1,450	0.05	0.05	5.70	1,471
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.45	0.40	0.87	7.63	0.00	0.00	1.30	1.30	0.00	0.30	0.30	—	1,360	1,360	0.06	0.05	0.15	1,376
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.10	1.14	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	205	205	0.01	0.01	0.36	207
Vendor	0.01	0.01	0.25	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	145	145	< 0.005	0.02	0.16	152
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	0.02	0.21	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.9	33.9	< 0.005	< 0.005	0.06	34.3
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.0	24.0	< 0.005	< 0.005	0.03	25.1
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	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.64	0.54	0.81	12.7	0.03	0.02	2.98	2.99	0.02	0.75	0.77	—	3,341	3,341	0.07	0.07	12.0	3,376
Parking Lot	0.05	0.05	3.34	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	2.99	1,780
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.69	0.59	4.14	13.0	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	5,038	5,038	0.07	0.34	15.0	5,156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.63	0.53	1.18	11.1	0.03	0.02	2.98	2.99	0.02	0.75	0.77	—	3,145	3,145	0.07	0.09	0.31	3,175
Parking Lot	0.05	0.05	3.60	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	0.08	1,777
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.68	0.58	4.78	11.4	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	4,842	4,842	0.07	0.36	0.39	4,951
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.11	0.10	0.18	2.05	0.01	< 0.005	0.53	0.53	< 0.005	0.13	0.14	—	529	529	0.01	0.01	0.86	534
Parking Lot	0.01	0.01	0.63	0.05	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	281	281	< 0.005	0.04	0.21	294
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.12	0.10	0.81	2.10	0.01	0.01	0.60	0.61	0.01	0.15	0.16	—	810	810	0.01	0.06	1.07	829

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.64	0.54	0.81	12.7	0.03	0.02	2.98	2.99	0.02	0.75	0.77	—	3,341	3,341	0.07	0.07	12.0	3,376
Parking Lot	0.05	0.05	3.34	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	2.99	1,780
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.69	0.59	4.14	13.0	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	5,038	5,038	0.07	0.34	15.0	5,156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.63	0.53	1.18	11.1	0.03	0.02	2.98	2.99	0.02	0.75	0.77	—	3,145	3,145	0.07	0.09	0.31	3,175
Parking Lot	0.05	0.05	3.60	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	0.08	1,777

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.68	0.58	4.78	11.4	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	4,842	4,842	0.07	0.36	0.39	4,951
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.11	0.10	0.18	2.05	0.01	< 0.005	0.53	0.53	< 0.005	0.13	0.14	—	529	529	0.01	0.01	0.86	534
Parking Lot	0.01	0.01	0.63	0.05	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	281	281	< 0.005	0.04	0.21	294
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.12	0.10	0.81	2.10	0.01	0.01	0.60	0.61	0.01	0.15	0.16	—	810	810	0.01	0.06	1.07	829

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufac	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	13,201	13,201	2.14	0.26	—	13,332
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,201	13,201	2.14	0.26	—	13,332

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	13,201	13,201	2.14	0.26	—	13,332
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,201	13,201	2.14	0.26	—	13,332

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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

Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.72	6.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.72	6.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.23	1.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.65	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.72	6.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.72	6.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.23	1.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.65	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufac	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.10	0.10	0.53	7.52	0.01	0.02	—	0.02	0.02	—	0.02	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.14	0.14	0.74	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,503	1,503	0.06	0.01	—	1,509
Total	0.33	0.33	1.70	24.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,449	3,449	0.14	0.03	—	3,461
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.10	0.10	0.53	7.52	0.01	0.02	—	0.02	0.02	—	0.02	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.14	0.14	0.74	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,503	1,503	0.06	0.01	—	1,509
Total	0.33	0.33	1.70	24.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,449	3,449	0.14	0.03	—	3,461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.02	0.02	0.09	1.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	163	163	0.01	< 0.005	—	164
Tractors/ Loaders/ Backhoes	0.01	0.01	0.07	1.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	132	132	0.01	< 0.005	—	133

Rubber Tired Loaders	0.02	0.02	0.12	1.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	228	228	0.01	< 0.005	—	229
Total	0.05	0.05	0.28	4.05	0.01	0.01	—	0.01	0.01	—	0.01	—	524	524	0.02	< 0.005	—	526

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.10	0.10	0.53	7.52	0.01	0.02	—	0.02	0.02	—	0.02	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.14	0.14	0.74	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,503	1,503	0.06	0.01	—	1,509
Total	0.33	0.33	1.70	24.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,449	3,449	0.14	0.03	—	3,461
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.10	0.10	0.53	7.52	0.01	0.02	—	0.02	0.02	—	0.02	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874

Rubber Tired Loaders	0.14	0.14	0.74	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,503	1,503	0.06	0.01	—	1,509
Total	0.33	0.33	1.70	24.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,449	3,449	0.14	0.03	—	3,461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.02	0.02	0.09	1.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	163	163	0.01	< 0.005	—	164
Tractors/ Loaders/ Backhoes	0.01	0.01	0.07	1.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	132	132	0.01	< 0.005	—	133
Rubber Tired Loaders	0.02	0.02	0.12	1.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	228	228	0.01	< 0.005	—	229
Total	0.05	0.05	0.28	4.05	0.01	0.01	—	0.01	0.01	—	0.01	—	524	524	0.02	< 0.005	—	526

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/1/2024	11/1/2024	5.00	24.0	—
Rail Spurs Construction	Site Preparation	2/15/2025	8/15/2025	5.00	130	—
Grading (Including Utilities)	Grading	10/15/2024	5/15/2025	5.00	153	—
Building/Vertical Construction	Building Construction	1/16/2025	12/16/2025	5.00	239	—
Utility Line Stringing	Building Construction	5/16/2025	9/16/2025	5.00	88.0	—
Paving	Paving	1/16/2025	3/15/2025	5.00	42.0	—
Architectural Coating	Architectural Coating	9/16/2025	11/30/2025	5.00	54.0	—

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
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Rail Spurs Construction	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Rail Spurs Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Rail Spurs Construction	Excavators	Diesel	Average	1.00	8.00	172	0.38
Rail Spurs Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	280	0.42

Grading (Including Utilities)	Excavators	Diesel	Average	1.00	8.00	172	0.38
Grading (Including Utilities)	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading (Including Utilities)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading (Including Utilities)	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Building/Vertical Construction	Cranes	Diesel	Average	6.00	7.00	367	0.29
Building/Vertical Construction	Forklifts	Diesel	Average	10.0	8.00	82.0	0.20
Building/Vertical Construction	Generator Sets	Diesel	Average	10.0	8.00	14.0	0.74
Building/Vertical Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building/Vertical Construction	Welders	Diesel	Average	25.0	8.00	46.0	0.45
Building/Vertical Construction	Aerial Lifts	Diesel	Average	10.0	8.00	46.0	0.31
Building/Vertical Construction	Rough Terrain Forklifts	Diesel	Average	5.00	8.00	96.0	0.40
Building/Vertical Construction	Other General Industrial Equipment	Diesel	Average	10.0	8.00	35.0	0.34
Building/Vertical Construction	Other Construction Equipment	Gasoline	Average	20.0	8.00	18.0	0.48
Utility Line Stringing	Cranes	Diesel	Average	1.00	7.00	367	0.29
Utility Line Stringing	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Utility Line Stringing	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Utility Line Stringing	Aerial Lifts	Diesel	Average	1.00	2.00	46.0	0.31
Utility Line Stringing	Other Construction Equipment	Diesel	Average	2.00	8.00	270	0.42
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Rail Spurs Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Rail Spurs Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Rail Spurs Construction	Excavators	Diesel	Tier 4 Final	1.00	8.00	172	0.38
Rail Spurs Construction	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	280	0.42
Grading (Including Utilities)	Excavators	Diesel	Tier 4 Final	1.00	8.00	172	0.38
Grading (Including Utilities)	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading (Including Utilities)	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading (Including Utilities)	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Building/Vertical Construction	Cranes	Diesel	Tier 4 Final	6.00	7.00	367	0.29
Building/Vertical Construction	Forklifts	Diesel	Tier 4 Final	10.0	8.00	82.0	0.20
Building/Vertical Construction	Generator Sets	Diesel	Average	10.0	8.00	14.0	0.74
Building/Vertical Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37

Building/Vertical Construction	Welders	Diesel	Average	25.0	8.00	46.0	0.45
Building/Vertical Construction	Aerial Lifts	Diesel	Average	10.0	8.00	46.0	0.31
Building/Vertical Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	8.00	96.0	0.40
Building/Vertical Construction	Other General Industrial Equipment	Diesel	Average	10.0	8.00	35.0	0.34
Building/Vertical Construction	Other Construction Equipment	Gasoline	Average	20.0	8.00	18.0	0.48
Utility Line Stringing	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Utility Line Stringing	Forklifts	Diesel	Tier 4 Final	2.00	8.00	82.0	0.20
Utility Line Stringing	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Utility Line Stringing	Aerial Lifts	Diesel	Average	1.00	2.00	46.0	0.31
Utility Line Stringing	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	270	0.42
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	35.4	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	75.0	HHDT,MHDT
Site Preparation	Hauling	0.00	75.0	HHDT
Site Preparation	Onsite truck	4.00	0.25	HHDT

Grading (Including Utilities)	—	—	—	—
Grading (Including Utilities)	Worker	16.0	35.4	LDA,LDT1,LDT2
Grading (Including Utilities)	Vendor	4.00	75.0	HHDT,MHDT
Grading (Including Utilities)	Hauling	6.00	75.0	HHDT
Grading (Including Utilities)	Onsite truck	10.0	0.25	HHDT
Building/Vertical Construction	—	—	—	—
Building/Vertical Construction	Worker	200	35.4	LDA,LDT1,LDT2
Building/Vertical Construction	Vendor	52.0	75.0	HHDT,MHDT
Building/Vertical Construction	Hauling	0.00	75.0	HHDT
Building/Vertical Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	35.4	LDA,LDT1,LDT2
Paving	Vendor	4.00	75.0	HHDT,MHDT
Paving	Hauling	0.00	75.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	52.0	35.4	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	75.0	HHDT,MHDT
Architectural Coating	Hauling	0.00	75.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Rail Spurs Construction	—	—	—	—
Rail Spurs Construction	Worker	10.0	35.4	LDA,LDT1,LDT2
Rail Spurs Construction	Vendor	4.00	75.0	HHDT,MHDT
Rail Spurs Construction	Hauling	0.00	75.0	HHDT
Rail Spurs Construction	Onsite truck	4.00	0.25	HHDT
Utility Line Stringing	—	—	—	—
Utility Line Stringing	Worker	24.0	35.4	LDA,LDT1,LDT2
Utility Line Stringing	Vendor	4.00	75.0	HHDT,MHDT

Utility Line Stringing	Hauling	0.00	75.0	HHDT
Utility Line Stringing	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	35.4	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	75.0	HHDT,MHDT
Site Preparation	Hauling	0.00	75.0	HHDT
Site Preparation	Onsite truck	4.00	0.25	HHDT
Grading (Including Utilities)	—	—	—	—
Grading (Including Utilities)	Worker	16.0	35.4	LDA,LDT1,LDT2
Grading (Including Utilities)	Vendor	4.00	75.0	HHDT,MHDT
Grading (Including Utilities)	Hauling	6.00	75.0	HHDT
Grading (Including Utilities)	Onsite truck	10.0	0.25	HHDT
Building/Vertical Construction	—	—	—	—
Building/Vertical Construction	Worker	200	35.4	LDA,LDT1,LDT2
Building/Vertical Construction	Vendor	52.0	75.0	HHDT,MHDT
Building/Vertical Construction	Hauling	0.00	75.0	HHDT
Building/Vertical Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	35.4	LDA,LDT1,LDT2
Paving	Vendor	4.00	75.0	HHDT,MHDT
Paving	Hauling	0.00	75.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	52.0	35.4	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	75.0	HHDT,MHDT

Architectural Coating	Hauling	0.00	75.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Rail Spurs Construction	—	—	—	—
Rail Spurs Construction	Worker	10.0	35.4	LDA,LDT1,LDT2
Rail Spurs Construction	Vendor	4.00	75.0	HHDT,MHDT
Rail Spurs Construction	Hauling	0.00	75.0	HHDT
Rail Spurs Construction	Onsite truck	4.00	0.25	HHDT
Utility Line Stringing	—	—	—	—
Utility Line Stringing	Worker	24.0	35.4	LDA,LDT1,LDT2
Utility Line Stringing	Vendor	4.00	75.0	HHDT,MHDT
Utility Line Stringing	Hauling	0.00	75.0	HHDT
Utility Line Stringing	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	67%	67%

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	0.00	0.00	460,110	153,370	119,180

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	36.0	0.00	—
Rail Spurs Construction	—	—	65.0	0.00	—
Grading (Including Utilities)	5,220	—	67.0	0.00	—
Paving	0.00	0.00	0.00	0.00	45.6

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	5.00	100%
Other Non-Asphalt Surfaces	40.6	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	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
Manufacturing	120	120	120	43,800	4,250	4,250	4,250	1,551,177

Parking Lot	6.00	6.00	6.00	2,190	450	450	450	164,250
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Manufacturing	120	120	120	43,800	4,250	4,250	4,250	1,551,177
Parking Lot	6.00	6.00	6.00	2,190	450	450	450	164,250
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	460,110	153,370	119,180

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

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)
Manufacturing	142,677,840	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Manufacturing	142,677,840	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	50,000,000	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	50,000,000	0.00

Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	3,485	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	3,485	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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
Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	24.0	96.0	0.40
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	24.0	84.0	0.37
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	24.0	150	0.36

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	24.0	96.0	0.40
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	24.0	84.0	0.37
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	24.0	150	0.36

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	25.9	annual days of extreme heat
Extreme Precipitation	1.60	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	20.0	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

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	55.4

AQ-PM	0.46
AQ-DPM	0.91
Drinking Water	10.4
Lead Risk Housing	51.0
Pesticides	60.4
Toxic Releases	1.26
Traffic	0.20
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	80.6
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	58.7
Solid Waste	98.8
Sensitive Population	—
Asthma	49.8
Cardio-vascular	32.3
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	27.6
Housing	5.48
Linguistic	0.51
Poverty	59.1
Unemployment	—

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	28.75657641
Employed	0.82124984
Median HI	15.05196972
Education	—
Bachelor's or higher	23.67509303
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	64.27563198
Active commuting	71.3845759
Social	—
2-parent households	47.6324907
Voting	85.02502246
Neighborhood	—
Alcohol availability	85.43564738
Park access	33.01680996
Retail density	0.076992172
Supermarket access	2.399589375
Tree canopy	75.2213525
Housing	—
Homeownership	85.58963172
Housing habitability	92.41627101
Low-inc homeowner severe housing cost burden	81.6501989
Low-inc renter severe housing cost burden	83.61349929
Uncrowded housing	93.6609778
Health Outcomes	—
Insured adults	21.67329655
Arthritis	0.0

Asthma ER Admissions	87.5
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	98.3
Cognitively Disabled	32.0
Physically Disabled	0.8
Heart Attack ER Admissions	51.6
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	12.7
SLR Inundation Area	0.0
Children	94.5
Elderly	10.1
English Speaking	85.0
Foreign-born	4.0

Outdoor Workers	3.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	98.2
Traffic Density	0.2
Traffic Access	0.0
Other Indices	—
Hardship	53.3
Other Decision Support	—
2016 Voting	78.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	20.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on applicant provided information.
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information. Excavators hp increased to 172. Light Towers modeled as Other General Industrial Equipment at 35 hp. Utility Vehicles modeled as Other Construction Equipment at 20 hp with gasoline fuel. Rail Tampers modeled as Other Construction Equipment at 280 hp. Tensioners modeled as Other Construction Equipment at 270 hp.
Construction: Trips and VMT	Rounded up to nearest even whole number.
Operations: Solid Waste	Includes solid waste from ash.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Vehicle Data	Trip rate back-calculated based on daily trips.
Operations: Water and Waste Water	Based on applicant provided information.
Operations: Off-Road Equipment	Equipment in log storage area, fuel storage area, and dryer furnace area. Assumed to operate 48 weeks per year.
Operations: Fleet Mix	Fleet mix based on trips during operations. Manufacturing land use accounts for workers. Parking lot land use accounts for ash removal trucks and vendor trucks.
Operations: Energy Use	Electricity provided by project applicant. No natural gas.

GSNR Lassen Facility - Unmitigated Con Unmitigated Op v3 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GSNR Lassen Facility - Unmitigated Con Unmitigated Op v3
Construction Start Date	10/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	45.8
Location	41.09799317835092, -121.17825209501598
County	Lassen
City	Unincorporated
Air District	Lassen County APCD
Air Basin	Northeast Plateau
TAZ	122
EDFZ	3
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.28

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
Manufacturing	307	1000sqft	112	306,740	0.00	—	—	—

Parking Lot	5.00	Acre	5.00	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	40.6	Acre	40.6	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	175	172	156	186	0.37	4.77	14.3	19.0	4.41	4.33	8.73	—	47,767	47,767	1.36	2.77	68.7	48,692
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	173	170	169	194	0.40	5.13	14.9	20.0	4.74	4.49	9.23	—	50,286	50,286	1.46	2.94	1.83	51,200
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	35.1	33.2	94.5	111	0.22	2.80	7.57	10.4	2.59	2.13	4.71	—	29,091	29,091	0.84	1.67	18.3	29,629
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.40	6.06	17.2	20.3	0.04	0.51	1.38	1.89	0.47	0.39	0.86	—	4,816	4,816	0.14	0.28	3.03	4,905

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	175	172	156	186	0.37	4.77	14.3	19.0	4.41	4.33	8.73	—	47,767	47,767	1.36	2.77	68.7	48,692
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	7.21	6.04	63.6	60.9	0.11	2.56	9.50	12.1	2.34	4.05	6.39	—	13,389	13,389	0.41	0.65	0.32	13,594
2025	173	170	169	194	0.40	5.13	14.9	20.0	4.74	4.49	9.23	—	50,286	50,286	1.46	2.94	1.83	51,200
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.70	0.59	6.31	6.16	0.01	0.25	0.91	1.16	0.23	0.37	0.60	—	1,456	1,456	0.04	0.08	0.63	1,482
2025	35.1	33.2	94.5	111	0.22	2.80	7.57	10.4	2.59	2.13	4.71	—	29,091	29,091	0.84	1.67	18.3	29,629
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.13	0.11	1.15	1.12	< 0.005	0.05	0.17	0.21	0.04	0.07	0.11	—	241	241	0.01	0.01	0.10	245
2025	6.40	6.06	17.2	20.3	0.04	0.51	1.38	1.89	0.47	0.39	0.86	—	4,816	4,816	0.14	0.28	3.03	4,905

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.	11.2	10.8	15.5	34.7	0.08	0.49	3.40	3.89	0.45	0.87	1.32	1,878	88,307	90,185	269	2.17	94.9	97,658
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.2	10.8	16.1	33.0	0.08	0.49	3.40	3.89	0.45	0.87	1.32	1,878	88,110	89,988	269	2.19	80.2	97,453
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.0	10.7	14.8	31.4	0.08	0.46	3.30	3.75	0.42	0.84	1.26	1,878	87,877	89,755	269	2.17	86.3	97,222

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.02	1.96	2.70	5.73	0.01	0.08	0.60	0.69	0.08	0.15	0.23	311	14,549	14,860	44.6	0.36	14.3	16,096

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	0.69	0.59	4.14	13.0	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	5,038	5,038	0.07	0.34	15.0	5,156
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	1.44	1.21	11.3	21.6	0.03	0.44	—	0.44	0.41	—	0.41	—	3,449	3,449	0.14	0.03	—	3,461
Total	11.2	10.8	15.5	34.7	0.08	0.49	3.40	3.89	0.45	0.87	1.32	1,878	88,307	90,185	269	2.17	94.9	97,658
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.68	0.58	4.78	11.4	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	4,842	4,842	0.07	0.36	0.39	4,951
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	1.44	1.21	11.3	21.6	0.03	0.44	—	0.44	0.41	—	0.41	—	3,449	3,449	0.14	0.03	—	3,461
Total	11.2	10.8	16.1	33.0	0.08	0.49	3.40	3.89	0.45	0.87	1.32	1,878	88,110	89,988	269	2.19	80.2	97,453

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.68	0.57	4.42	11.5	0.05	0.05	3.30	3.35	0.05	0.84	0.89	—	4,892	4,892	0.07	0.35	6.48	5,004
Area	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	79,737	79,737	12.9	1.56	—	80,525
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Waste	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Off-Road	1.32	1.11	10.4	19.9	0.03	0.41	—	0.41	0.37	—	0.37	—	3,165	3,165	0.13	0.03	—	3,176
Total	11.0	10.7	14.8	31.4	0.08	0.46	3.30	3.75	0.42	0.84	1.26	1,878	87,877	89,755	269	2.17	86.3	97,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.12	0.10	0.81	2.10	0.01	0.01	0.60	0.61	0.01	0.15	0.16	—	810	810	0.01	0.06	1.07	829
Area	1.65	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,201	13,201	2.14	0.26	—	13,332
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2
Off-Road	0.24	0.20	1.90	3.63	0.01	0.07	—	0.07	0.07	—	0.07	—	524	524	0.02	< 0.005	—	526
Total	2.02	1.96	2.70	5.73	0.01	0.08	0.60	0.69	0.08	0.15	0.23	311	14,549	14,860	44.6	0.36	14.3	16,096

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.62	9.62	< 0.005	< 0.005	< 0.005	10.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.36	2.17	< 0.005	0.11	—	0.11	0.10	—	0.10	—	348	348	0.01	< 0.005	—	349
Dust From Material Movement	—	—	—	—	—	—	0.34	0.34	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.43	0.40	< 0.005	0.02	—	0.02	0.02	—	0.02	—	57.7	57.7	< 0.005	< 0.005	—	57.8
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.14	0.33	2.88	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	480	480	0.02	0.02	0.06	486
Vendor	0.05	0.04	1.97	0.36	0.01	0.02	0.26	0.28	0.01	0.07	0.08	—	999	999	0.01	0.14	0.07	1,041
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.19	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.1	32.1	< 0.005	< 0.005	0.06	32.5
Vendor	< 0.005	< 0.005	0.12	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	65.7	65.7	< 0.005	0.01	0.07	68.5
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	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.32	5.32	< 0.005	< 0.005	0.01	5.38
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3
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	0.00

3.3. Rail Spurs Construction (2025) - Unmitigated

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

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

Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.56	9.56	< 0.005	< 0.005	0.01	10.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.47	9.47	< 0.005	< 0.005	< 0.005	9.92
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.71	5.63	0.01	0.24	—	0.24	0.22	—	0.22	—	1,201	1,201	0.05	0.01	—	1,206
Dust From Material Movement	—	—	—	—	—	—	0.61	0.61	—	0.31	0.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	3.39	3.39	< 0.005	< 0.005	< 0.005	3.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.13	0.11	1.04	1.03	< 0.005	0.04	—	0.04	0.04	—	0.04	—	199	199	0.01	< 0.005	—	200
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.11	1.68	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	279	279	0.01	0.01	1.10	283
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.09	0.08	0.17	1.47	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	262	262	0.01	0.01	0.03	265
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.05	0.53	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	94.8	94.8	< 0.005	< 0.005	0.17	95.9
Vendor	0.02	0.01	0.61	0.11	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	350	350	< 0.005	0.05	0.39	365
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	< 0.005	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.03	15.9
Vendor	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.9	57.9	< 0.005	0.01	0.07	60.4
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	0.00

3.5. Grading (Including Utilities) (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.9	21.4	0.03	0.89	—	0.89	0.82	—	0.82	—	3,425	3,425	0.14	0.03	—	3,437
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.08	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	24.1	24.1	< 0.005	< 0.005	< 0.005	25.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	2.89	3.26	< 0.005	0.14	—	0.14	0.12	—	0.12	—	523	523	0.02	< 0.005	—	525
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	0.06	0.53	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	86.6	86.6	< 0.005	< 0.005	—	86.9
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.13	0.29	2.56	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	427	427	0.02	0.01	0.05	432
Vendor	0.05	0.04	1.97	0.36	0.01	0.02	0.26	0.28	0.01	0.07	0.08	—	999	999	0.01	0.14	0.07	1,041
Hauling	0.05	0.05	3.85	0.33	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,729	1,729	< 0.005	0.27	0.08	1,809
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.04	0.39	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	66.2	66.2	< 0.005	< 0.005	0.12	67.1
Vendor	0.01	0.01	0.29	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	< 0.005	0.02	0.17	159
Hauling	0.01	0.01	0.56	0.05	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	264	264	< 0.005	0.04	0.20	276
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.02	11.1
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	< 0.005	< 0.005	0.03	26.3
Hauling	< 0.005	< 0.005	0.10	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	43.7	43.7	< 0.005	0.01	0.03	45.7

3.7. Grading (Including Utilities) (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.83	16.8	20.4	0.03	0.76	—	0.76	0.70	—	0.70	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.07	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	23.9	23.9	< 0.005	< 0.005	0.02	25.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.83	16.8	20.4	0.03	0.76	—	0.76	0.70	—	0.70	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.08	< 0.005	< 0.005	0.55	0.55	< 0.005	0.05	0.06	—	23.7	23.7	< 0.005	< 0.005	< 0.005	24.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.48	4.43	5.40	0.01	0.20	—	0.20	0.19	—	0.19	—	905	905	0.04	0.01	—	908
Dust From Material Movement	—	—	—	—	—	—	0.49	0.49	—	0.24	0.24	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	6.29	6.29	< 0.005	< 0.005	< 0.005	6.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.81	0.99	< 0.005	0.04	—	0.04	0.03	—	0.03	—	150	150	0.01	< 0.005	—	150
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.09
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.18	2.69	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	446	446	0.02	0.01	1.75	453
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
Hauling	0.05	0.04	3.34	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	2.99	1,780
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.27	2.35	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	419	419	0.02	0.01	0.05	423
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.05	0.04	3.60	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	0.08	1,777
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.06	0.63	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	112	112	< 0.005	< 0.005	0.20	114
Vendor	0.01	0.01	0.45	0.08	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	259	259	< 0.005	0.04	0.29	271
Hauling	0.01	0.01	0.91	0.08	0.01	0.01	0.11	0.12	0.01	0.03	0.04	—	448	448	< 0.005	0.07	0.34	470
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	0.03	18.9

Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.9	42.9	< 0.005	0.01	0.05	44.8
Hauling	< 0.005	< 0.005	0.17	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.2	74.2	< 0.005	0.01	0.06	77.8

3.9. Building/Vertical Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	12.5	10.4	91.7	107	0.19	3.09	—	3.09	2.85	—	2.85	—	18,212	18,212	0.74	0.15	—	18,275
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	12.5	10.4	91.7	107	0.19	3.09	—	3.09	2.85	—	2.85	—	18,212	18,212	0.74	0.15	—	18,275
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.17	6.81	60.1	70.0	0.13	2.03	—	2.03	1.86	—	1.86	—	11,925	11,925	0.48	0.10	—	11,966
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.49	1.24	11.0	12.8	0.02	0.37	—	0.37	0.34	—	0.34	—	1,974	1,974	0.08	0.02	—	1,981
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.91	1.57	2.20	33.7	0.00	0.00	5.00	5.00	0.00	1.17	1.17	—	5,578	5,578	0.20	0.17	21.9	5,657
Vendor	0.56	0.46	21.6	4.23	0.09	0.17	3.36	3.53	0.17	0.90	1.08	—	12,758	12,758	0.09	1.81	33.3	13,335
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	1.72	1.53	3.36	29.4	0.00	0.00	5.00	5.00	0.00	1.17	1.17	—	5,233	5,233	0.23	0.18	0.57	5,292
Vendor	0.55	0.46	23.5	4.13	0.09	0.17	3.36	3.53	0.17	0.90	1.08	—	12,757	12,757	0.09	1.81	0.87	13,301
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	1.12	1.00	1.77	19.5	0.00	0.00	3.18	3.18	0.00	0.74	0.74	—	3,484	3,484	0.14	0.11	6.20	3,528
Vendor	0.36	0.30	14.6	2.74	0.06	0.11	2.15	2.26	0.11	0.58	0.69	—	8,354	8,354	0.06	1.19	9.42	8,719
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.18	0.32	3.56	0.00	0.00	0.58	0.58	0.00	0.14	0.14	—	577	577	0.02	0.02	1.03	584
Vendor	0.07	0.06	2.67	0.50	0.01	0.02	0.39	0.41	0.02	0.11	0.13	—	1,383	1,383	0.01	0.20	1.56	1,443
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Utility Line Stringing (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	1.53	15.1	11.5	0.03	0.61	—	0.61	0.56	—	0.56	—	3,530	3,530	0.14	0.03	—	3,543
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.65	2.78	0.01	0.15	—	0.15	0.14	—	0.14	—	851	851	0.03	0.01	—	854
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.67	0.51	< 0.005	0.03	—	0.03	0.02	—	0.02	—	141	141	0.01	< 0.005	—	141
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.19	0.26	4.04	0.00	0.00	0.60	0.60	0.00	0.14	0.14	—	669	669	0.02	0.02	2.63	679
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.05	0.04	0.08	0.86	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	154	154	0.01	0.01	0.27	156
Vendor	0.01	0.01	0.41	0.08	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	237	237	< 0.005	0.03	0.27	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.5	25.5	< 0.005	< 0.005	0.05	25.8
Vendor	< 0.005	< 0.005	0.08	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.2	39.2	< 0.005	0.01	0.04	40.9
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	0.00

3.13. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	0.09	0.86	1.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	174	174	0.01	< 0.005	—	175
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.8	28.8	< 0.005	< 0.005	—	28.9
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.27	2.35	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	419	419	0.02	0.01	0.05	423
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
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	0.02	0.01	0.02	0.27	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	49.0	49.0	< 0.005	< 0.005	0.09	49.6
Vendor	< 0.005	< 0.005	0.20	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.13	118
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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.11	8.11	< 0.005	< 0.005	0.01	8.21
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.7	18.7	< 0.005	< 0.005	0.02	19.5
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

3.15. Architectural Coating (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	157	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	157	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.8

Architect Coatings	23.3	23.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.27	3.27	< 0.005	< 0.005	—	3.28
Architectural Coatings	4.25	4.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.41	0.57	8.75	0.00	0.00	1.30	1.30	0.00	0.30	0.30	—	1,450	1,450	0.05	0.05	5.70	1,471
Vendor	0.04	0.04	1.66	0.33	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	2.56	1,026
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	0.45	0.40	0.87	7.63	0.00	0.00	1.30	1.30	0.00	0.30	0.30	—	1,360	1,360	0.06	0.05	0.15	1,376
Vendor	0.04	0.04	1.81	0.32	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	981	981	0.01	0.14	0.07	1,023
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.10	1.14	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	205	205	0.01	0.01	0.36	207
Vendor	0.01	0.01	0.25	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	145	145	< 0.005	0.02	0.16	152
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	0.02	0.21	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.9	33.9	< 0.005	< 0.005	0.06	34.3
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.0	24.0	< 0.005	< 0.005	0.03	25.1
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	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.64	0.54	0.81	12.7	0.03	0.02	2.98	2.99	0.02	0.75	0.77	—	3,341	3,341	0.07	0.07	12.0	3,376
Parking Lot	0.05	0.05	3.34	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	2.99	1,780
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.69	0.59	4.14	13.0	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	5,038	5,038	0.07	0.34	15.0	5,156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.63	0.53	1.18	11.1	0.03	0.02	2.98	2.99	0.02	0.75	0.77	—	3,145	3,145	0.07	0.09	0.31	3,175
Parking Lot	0.05	0.05	3.60	0.30	0.02	0.03	0.42	0.45	0.03	0.11	0.14	—	1,697	1,697	< 0.005	0.27	0.08	1,777
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.68	0.58	4.78	11.4	0.05	0.05	3.40	3.44	0.05	0.87	0.91	—	4,842	4,842	0.07	0.36	0.39	4,951
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.11	0.10	0.18	2.05	0.01	< 0.005	0.53	0.53	< 0.005	0.13	0.14	—	529	529	0.01	0.01	0.86	534
Parking Lot	0.01	0.01	0.63	0.05	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	281	281	< 0.005	0.04	0.21	294
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.12	0.10	0.81	2.10	0.01	0.01	0.60	0.61	0.01	0.15	0.16	—	810	810	0.01	0.06	1.07	829

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	79,737	79,737	12.9	1.56	—	80,525
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	13,201	13,201	2.14	0.26	—	13,332
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,201	13,201	2.14	0.26	—	13,332

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufac	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.72	6.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.72	6.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.33	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.05	9.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.23	1.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.65	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	83.1	83.1	68.5	0.24	—	1,866
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	13.8	13.8	11.3	0.04	—	309

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,878	0.00	1,878	188	0.00	—	6,570
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	311	0.00	311	31.1	0.00	—	1,088

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8	79.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Rough Terrain Forklifts	0.29	0.24	3.44	6.54	0.01	0.07	—	0.07	0.07	—	0.07	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.38	0.32	3.30	5.73	0.01	0.13	—	0.13	0.12	—	0.12	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.77	0.64	4.58	9.38	0.01	0.24	—	0.24	0.22	—	0.22	—	1,503	1,503	0.06	0.01	—	1,509
Total	1.44	1.21	11.3	21.6	0.03	0.44	—	0.44	0.41	—	0.41	—	3,449	3,449	0.14	0.03	—	3,461
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.29	0.24	3.44	6.54	0.01	0.07	—	0.07	0.07	—	0.07	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.38	0.32	3.30	5.73	0.01	0.13	—	0.13	0.12	—	0.12	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.77	0.64	4.58	9.38	0.01	0.24	—	0.24	0.22	—	0.22	—	1,503	1,503	0.06	0.01	—	1,509
Total	1.44	1.21	11.3	21.6	0.03	0.44	—	0.44	0.41	—	0.41	—	3,449	3,449	0.14	0.03	—	3,461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.05	0.04	0.58	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	163	163	0.01	< 0.005	—	164
Tractors/ Loaders/ Backhoes	0.06	0.05	0.55	0.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	132	132	0.01	< 0.005	—	133
Rubber Tired Loaders	0.13	0.11	0.77	1.57	< 0.005	0.04	—	0.04	0.04	—	0.04	—	228	228	0.01	< 0.005	—	229
Total	0.24	0.20	1.90	3.63	0.01	0.07	—	0.07	0.07	—	0.07	—	524	524	0.02	< 0.005	—	526

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/1/2024	11/1/2024	5.00	24.0	—
Rail Spurs Construction	Site Preparation	2/15/2025	8/15/2025	5.00	130	—
Grading (Including Utilities)	Grading	10/15/2024	5/15/2025	5.00	153	—
Building/Vertical Construction	Building Construction	1/16/2025	12/16/2025	5.00	239	—
Utility Line Stringing	Building Construction	5/16/2025	9/16/2025	5.00	88.0	—
Paving	Paving	1/16/2025	3/15/2025	5.00	42.0	—
Architectural Coating	Architectural Coating	9/16/2025	11/30/2025	5.00	54.0	—

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
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back	Diesel	Average	4.00	8.00	84.0	0.37
Rail Spurs Construction	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Rail Spurs Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Rail Spurs Construction	Excavators	Diesel	Average	1.00	8.00	172	0.38
Rail Spurs Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	280	0.42
Grading (Including Utilities)	Excavators	Diesel	Average	1.00	8.00	172	0.38
Grading (Including Utilities)	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading (Including Utilities)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading (Including Utilities)	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Building/Vertical Construction	Cranes	Diesel	Average	6.00	7.00	367	0.29
Building/Vertical Construction	Forklifts	Diesel	Average	10.0	8.00	82.0	0.20
Building/Vertical Construction	Generator Sets	Diesel	Average	10.0	8.00	14.0	0.74
Building/Vertical Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building/Vertical Construction	Welders	Diesel	Average	25.0	8.00	46.0	0.45
Building/Vertical Construction	Aerial Lifts	Diesel	Average	10.0	8.00	46.0	0.31
Building/Vertical Construction	Rough Terrain Forklifts	Diesel	Average	5.00	8.00	96.0	0.40
Building/Vertical Construction	Other General Industrial Equipment	Diesel	Average	10.0	8.00	35.0	0.34
Building/Vertical Construction	Other Construction Equipment	Gasoline	Average	20.0	8.00	18.0	0.48

Utility Line Stringing	Cranes	Diesel	Average	1.00	7.00	367	0.29
Utility Line Stringing	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Utility Line Stringing	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Utility Line Stringing	Aerial Lifts	Diesel	Average	1.00	2.00	46.0	0.31
Utility Line Stringing	Other Construction Equipment	Diesel	Average	2.00	8.00	270	0.42
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	35.4	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	75.0	HHDT,MHDT
Site Preparation	Hauling	0.00	75.0	HHDT
Site Preparation	Onsite truck	4.00	0.25	HHDT
Grading (Including Utilities)	—	—	—	—
Grading (Including Utilities)	Worker	16.0	35.4	LDA,LDT1,LDT2
Grading (Including Utilities)	Vendor	4.00	75.0	HHDT,MHDT
Grading (Including Utilities)	Hauling	6.00	75.0	HHDT
Grading (Including Utilities)	Onsite truck	10.0	0.25	HHDT
Building/Vertical Construction	—	—	—	—
Building/Vertical Construction	Worker	200	35.4	LDA,LDT1,LDT2
Building/Vertical Construction	Vendor	52.0	75.0	HHDT,MHDT
Building/Vertical Construction	Hauling	0.00	75.0	HHDT

Building/Vertical Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	35.4	LDA,LDT1,LDT2
Paving	Vendor	4.00	75.0	HHDT,MHDT
Paving	Hauling	0.00	75.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	52.0	35.4	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	75.0	HHDT,MHDT
Architectural Coating	Hauling	0.00	75.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Rail Spurs Construction	—	—	—	—
Rail Spurs Construction	Worker	10.0	35.4	LDA,LDT1,LDT2
Rail Spurs Construction	Vendor	4.00	75.0	HHDT,MHDT
Rail Spurs Construction	Hauling	0.00	75.0	HHDT
Rail Spurs Construction	Onsite truck	4.00	0.25	HHDT
Utility Line Stringing	—	—	—	—
Utility Line Stringing	Worker	24.0	35.4	LDA,LDT1,LDT2
Utility Line Stringing	Vendor	4.00	75.0	HHDT,MHDT
Utility Line Stringing	Hauling	0.00	75.0	HHDT
Utility Line Stringing	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	67%	67%

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	0.00	0.00	460,110	153,370	119,180

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	36.0	0.00	—
Rail Spurs Construction	—	—	65.0	0.00	—
Grading (Including Utilities)	5,220	—	67.0	0.00	—
Paving	0.00	0.00	0.00	0.00	45.6

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	5.00	100%
Other Non-Asphalt Surfaces	40.6	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	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
Manufacturing	120	120	120	43,800	4,250	4,250	4,250	1,551,177
Parking Lot	6.00	6.00	6.00	2,190	450	450	450	164,250
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	460,110	153,370	119,180

5.10.3. Landscape Equipment

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

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)
Manufacturing	142,677,840	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	50,000,000	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	3,485	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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
Rough Terrain Forklifts	Diesel	Average	1.00	24.0	96.0	0.40
Tractors/Loaders/Backhoes	Diesel	Average	1.00	24.0	84.0	0.37
Rubber Tired Loaders	Diesel	Average	1.00	24.0	150	0.36

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	25.9	annual days of extreme heat
Extreme Precipitation	1.60	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	20.0	annual hectares burned

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

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

6.2. Initial Climate Risk Scores

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

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	55.4
AQ-PM	0.46
AQ-DPM	0.91
Drinking Water	10.4
Lead Risk Housing	51.0
Pesticides	60.4
Toxic Releases	1.26
Traffic	0.20
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	80.6
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	58.7
Solid Waste	98.8
Sensitive Population	—
Asthma	49.8

Cardio-vascular	32.3
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	27.6
Housing	5.48
Linguistic	0.51
Poverty	59.1
Unemployment	—

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	28.75657641
Employed	0.82124984
Median HI	15.05196972
Education	—
Bachelor's or higher	23.67509303
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	64.27563198
Active commuting	71.3845759
Social	—
2-parent households	47.6324907
Voting	85.02502246
Neighborhood	—
Alcohol availability	85.43564738

Park access	33.01680996
Retail density	0.076992172
Supermarket access	2.399589375
Tree canopy	75.2213525
Housing	—
Homeownership	85.58963172
Housing habitability	92.41627101
Low-inc homeowner severe housing cost burden	81.6501989
Low-inc renter severe housing cost burden	83.61349929
Uncrowded housing	93.6609778
Health Outcomes	—
Insured adults	21.67329655
Arthritis	0.0
Asthma ER Admissions	87.5
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	98.3
Cognitively Disabled	32.0
Physically Disabled	0.8
Heart Attack ER Admissions	51.6
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	12.7
SLR Inundation Area	0.0
Children	94.5
Elderly	10.1
English Speaking	85.0
Foreign-born	4.0
Outdoor Workers	3.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	98.2
Traffic Density	0.2
Traffic Access	0.0
Other Indices	—
Hardship	53.3
Other Decision Support	—
2016 Voting	78.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	20.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on applicant provided information.
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information. Excavators hp increased to 172. Light Towers modeled as Other General Industrial Equipment at 35 hp. Utility Vehicles modeled as Other Construction Equipment at 20 hp with gasoline fuel. Rail Tampers modeled as Other Construction Equipment at 280 hp. Tensioners modeled as Other Construction Equipment at 270 hp.
Construction: Trips and VMT	Rounded up to nearest even whole number.
Operations: Solid Waste	Includes solid waste from ash.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Vehicle Data	Trip rate back-calculated based on daily trips.
Operations: Water and Waste Water	Based on applicant provided information.
Operations: Off-Road Equipment	Equipment in log storage area, fuel storage area, and dryer furnace area. Assumed to operate 48 weeks per year.
Operations: Fleet Mix	Fleet mix based on trips during operations. Manufacturing land use accounts for workers. Parking lot land use accounts for ash removal trucks and vendor trucks.

Operations: Energy Use	Electricity provided by project applicant. No natural gas.

GSNR Lassen Feedstock - Portion of Trucks Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GSNR Lassen Feedstock - Portion of Trucks
Construction Start Date	1/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	Statewide
Windspeed (m/s)	2.50
Precipitation (days)	45.8
Location	41.09867489243578, -121.17846231436461
County	Lassen
City	Unincorporated
Air District	Lassen County APCD
Air Basin	Northeast Plateau
TAZ	122
EDFZ	3
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

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
Manufacturing	307	1000sqft	7.04	306,740	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.64	1.73	114	28.5	0.67	1.98	27.7	29.7	1.98	7.58	9.56	—	102,454	102,454	3.53	16.0	253	107,551
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.58	1.68	120	28.7	0.67	1.98	27.7	29.7	1.98	7.58	9.56	—	102,474	102,474	3.52	16.0	6.58	107,324
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.23	0.82	57.5	13.8	0.32	0.96	13.1	14.0	0.96	3.59	4.55	—	49,561	49,561	1.71	7.72	52.8	51,957
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.41	0.15	10.5	2.52	0.06	0.17	2.39	2.56	0.17	0.66	0.83	—	8,205	8,205	0.28	1.28	8.75	8,602

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.64	1.73	114	28.5	0.67	1.98	27.7	29.7	1.98	7.58	9.56	—	102,454	102,454	3.53	16.0	253	107,551

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.58	1.68	120	28.7	0.67	1.98	27.7	29.7	1.98	7.58	9.56	—	102,474	102,474	3.52	16.0	6.58	107,324
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.23	0.82	57.5	13.8	0.32	0.96	13.1	14.0	0.96	3.59	4.55	—	49,561	49,561	1.71	7.72	52.8	51,957
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.41	0.15	10.5	2.52	0.06	0.17	2.39	2.56	0.17	0.66	0.83	—	8,205	8,205	0.28	1.28	8.75	8,602

3. Construction Emissions Details

3.1. Harvest Residuals (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	2.23	0.83	54.7	13.7	0.32	0.95	13.3	14.3	0.95	3.65	4.60	—	49,357	49,357	1.70	7.69	122	51,813
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	2.21	0.81	57.8	13.8	0.32	0.95	13.3	14.3	0.95	3.65	4.60	—	49,367	49,367	1.70	7.69	3.17	51,704
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	1.07	0.39	27.5	6.60	0.15	0.46	6.25	6.71	0.46	1.71	2.17	—	23,666	23,666	0.82	3.69	25.2	24,811
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.19	0.07	5.02	1.20	0.03	0.08	1.14	1.22	0.08	0.31	0.40	—	3,918	3,918	0.14	0.61	4.18	4,108

3.3. GSNR Biomass Only Thinning Projects (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	2.32	0.86	56.8	14.2	0.34	0.99	13.8	14.8	0.99	3.79	4.78	—	51,227	51,227	1.77	7.98	127	53,776
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	2.29	0.84	60.0	14.3	0.34	0.99	13.8	14.8	0.99	3.79	4.78	—	51,237	51,237	1.76	7.98	3.29	53,662
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	1.11	0.41	28.5	6.85	0.16	0.47	6.49	6.96	0.47	1.78	2.25	—	24,563	24,563	0.85	3.83	26.2	25,750
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.20	0.07	5.21	1.25	0.03	0.09	1.18	1.27	0.09	0.32	0.41	—	4,067	4,067	0.14	0.63	4.33	4,263

3.5. Mill Residuals (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.08	0.03	2.07	0.52	0.01	0.04	0.51	0.54	0.04	0.14	0.17	—	1,870	1,870	0.06	0.29	4.62	1,963
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.08	0.03	2.19	0.52	0.01	0.04	0.51	0.54	0.04	0.14	0.17	—	1,870	1,870	0.06	0.29	0.12	1,958
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.06	0.02	1.55	0.37	0.01	0.03	0.35	0.38	0.03	0.10	0.12	—	1,332	1,332	0.05	0.21	1.42	1,396
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.01	< 0.005	0.28	0.07	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	221	221	0.01	0.03	0.24	231

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Harvest Residuals	Site Preparation	4/7/2025	12/7/2025	5.00	175	—
GSNR Biomass Only Thinning Projects	Site Preparation	4/7/2025	12/7/2025	5.00	175	—
Mill Residuals	Site Preparation	1/1/2025	12/30/2025	5.00	260	—

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

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Harvest Residuals	—	—	—	—
Harvest Residuals	Worker	0.00	0.00	LDA,LDT1,LDT2
Harvest Residuals	Vendor	0.00	0.00	HHDT,MHDT
Harvest Residuals	Hauling	264	54.5	HHDT
Harvest Residuals	Onsite truck	0.00	0.00	HHDT
GSNR Biomass Only Thinning Projects	—	—	—	—
GSNR Biomass Only Thinning Projects	Worker	0.00	0.00	LDA,LDT1,LDT2
GSNR Biomass Only Thinning Projects	Vendor	0.00	0.00	HHDT,MHDT

GSNR Biomass Only Thinning Projects	Hauling	274	54.5	HHDT
GSNR Biomass Only Thinning Projects	Onsite truck	0.00	0.00	HHDT
Mill Residuals	—	—	—	—
Mill Residuals	Worker	0.00	0.00	LDA,LDT1,LDT2
Mill Residuals	Vendor	0.00	0.00	HHDT,MHDT
Mill Residuals	Hauling	10.0	54.5	HHDT
Mill Residuals	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Limit vehicle speeds on unpaved roads to 25 mph	67%	67%

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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Harvest Residuals	—	—	0.00	0.00	—
GSNR Biomass Only Thinning Projects	—	—	0.00	0.00	—
Mill Residuals	—	—	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	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
2025	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	25.9	annual days of extreme heat
Extreme Precipitation	1.60	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	20.0	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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

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	55.4
AQ-PM	0.46
AQ-DPM	0.91
Drinking Water	10.4
Lead Risk Housing	51.0
Pesticides	60.4
Toxic Releases	1.26
Traffic	0.20
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	80.6
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	58.7
Solid Waste	98.8
Sensitive Population	—
Asthma	49.8
Cardio-vascular	32.3
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	27.6
Housing	5.48
Linguistic	0.51
Poverty	59.1
Unemployment	—

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	28.75657641
Employed	0.82124984
Median HI	15.05196972
Education	—
Bachelor's or higher	23.67509303
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	64.27563198
Active commuting	71.3845759
Social	—
2-parent households	47.6324907
Voting	85.02502246
Neighborhood	—
Alcohol availability	85.43564738
Park access	33.01680996
Retail density	0.076992172
Supermarket access	2.399589375
Tree canopy	75.2213525
Housing	—
Homeownership	85.58963172
Housing habitability	92.41627101
Low-inc homeowner severe housing cost burden	81.6501989
Low-inc renter severe housing cost burden	83.61349929

Uncrowded housing	93.6609778
Health Outcomes	—
Insured adults	21.67329655
Arthritis	0.0
Asthma ER Admissions	87.5
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	98.3
Cognitively Disabled	32.0
Physically Disabled	0.8
Heart Attack ER Admissions	51.6
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	12.7
SLR Inundation Area	0.0

Children	94.5
Elderly	10.1
English Speaking	85.0
Foreign-born	4.0
Outdoor Workers	3.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	98.2
Traffic Density	0.2
Traffic Access	0.0
Other Indices	—
Hardship	53.3
Other Decision Support	—
2016 Voting	78.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	20.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Concurrent feedstock operations.
Construction: Off-Road Equipment	No equipment.
Construction: Trips and VMT	Project-specific information for Operational HRA.
Construction: On-Road Fugitive Dust	Applicant provided information.
Characteristics: Project Details	Statewide analysis level because feedstock acquisition would take place in multiple air districts.
Construction: Dust From Material Movement	No earthwork.

GSNR Lassen Feedstock Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GSNR Lassen Feedstock
Construction Start Date	1/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	Statewide
Windspeed (m/s)	2.50
Precipitation (days)	45.8
Location	41.09867489243578, -121.17846231436461
County	Lassen
City	Unincorporated
Air District	Lassen County APCD
Air Basin	Northeast Plateau
TAZ	122
EDFZ	3
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

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
Manufacturing	307	1000sqft	7.04	306,740	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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.	98.7	80.0	1,120	607	2.69	33.5	1,846	1,879	31.0	314	345	—	340,823	340,823	12.6	24.0	410	348,704
Mit.	36.4	30.0	602	953	2.69	10.9	1,846	1,857	10.6	314	325	—	340,823	340,823	12.6	24.0	410	348,704
% Reduced	63%	63%	46%	-57%	—	67%	—	1%	66%	—	6%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	98.5	79.8	1,130	596	2.69	33.5	1,846	1,879	31.0	314	345	—	340,087	340,087	12.6	24.0	10.7	347,572
Mit.	36.2	29.8	611	941	2.69	10.9	1,846	1,857	10.6	314	325	—	340,087	340,087	12.6	24.0	10.7	347,572
% Reduced	63%	63%	46%	-58%	—	67%	—	1%	66%	—	6%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	47.3	38.3	542	287	1.30	16.0	800	816	14.9	142	157	—	163,716	163,716	6.08	11.6	85.6	167,413
Mit.	17.4	14.3	293	452	1.30	5.25	800	805	5.10	142	147	—	163,716	163,716	6.08	11.6	85.6	167,413
% Reduced	63%	63%	46%	-58%	—	67%	—	1%	66%	—	6%	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.63	6.98	98.8	52.3	0.24	2.93	146	149	2.71	25.9	28.6	—	27,105	27,105	1.01	1.92	14.2	27,717
Mit.	3.17	2.61	53.5	82.6	0.24	0.96	146	147	0.93	25.9	26.9	—	27,105	27,105	1.01	1.92	14.2	27,717
% Reduced	63%	63%	46%	-58%	—	67%	—	1%	66%	—	6%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	98.7	80.0	1,120	607	2.69	33.5	1,846	1,879	31.0	314	345	—	340,823	340,823	12.6	24.0	410	348,704
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	98.5	79.8	1,130	596	2.69	33.5	1,846	1,879	31.0	314	345	—	340,087	340,087	12.6	24.0	10.7	347,572
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	47.3	38.3	542	287	1.30	16.0	800	816	14.9	142	157	—	163,716	163,716	6.08	11.6	85.6	167,413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	8.63	6.98	98.8	52.3	0.24	2.93	146	149	2.71	25.9	28.6	—	27,105	27,105	1.01	1.92	14.2	27,717

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	36.4	30.0	602	953	2.69	10.9	1,846	1,857	10.6	314	325	—	340,823	340,823	12.6	24.0	410	348,704

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	36.2	29.8	611	941	2.69	10.9	1,846	1,857	10.6	314	325	—	340,087	340,087	12.6	24.0	10.7	347,572
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	17.4	14.3	293	452	1.30	5.25	800	805	5.10	142	147	—	163,716	163,716	6.08	11.6	85.6	167,413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.17	2.61	53.5	82.6	0.24	0.96	146	147	0.93	25.9	26.9	—	27,105	27,105	1.01	1.92	14.2	27,717

3. Construction Emissions Details

3.1. Harvest Residuals (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	10.7	9.00	138	69.9	0.31	3.10	—	3.10	2.85	—	2.85	—	33,734	33,734	1.37	0.27	—	33,849
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.53	0.26	9.20	4.06	0.04	0.10	725	725	0.10	72.4	72.5	—	5,538	5,538	0.28	0.86	12.6	5,816
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	10.7	9.00	138	69.9	0.31	3.10	—	3.10	2.85	—	2.85	—	33,734	33,734	1.37	0.27	—	33,849
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.50	0.24	9.71	4.16	0.04	0.10	725	725	0.10	72.4	72.5	—	5,548	5,548	0.28	0.86	0.33	5,813
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.14	4.32	66.2	33.5	0.15	1.49	—	1.49	1.37	—	1.37	—	16,174	16,174	0.66	0.13	—	16,229
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.25	0.12	4.58	1.96	0.02	0.05	304	304	0.05	30.4	30.4	—	2,657	2,657	0.13	0.41	2.62	2,787
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	12.1	6.11	0.03	0.27	—	0.27	0.25	—	0.25	—	2,678	2,678	0.11	0.02	—	2,687
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.05	0.02	0.84	0.36	< 0.005	0.01	55.5	55.5	0.01	5.54	5.55	—	440	440	0.02	0.07	0.43	461
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.11	0.94	1.45	24.4	0.00	0.00	4.70	4.70	0.00	1.10	1.10	—	5,008	5,008	0.18	0.16	19.2	5,079

Vendor	0.82	0.35	19.0	5.66	0.14	0.29	5.49	5.77	0.29	1.52	1.80	—	19,861	19,861	0.46	2.90	55.7	20,794
Hauling	2.04	0.77	49.4	12.6	0.29	0.85	12.0	12.8	0.85	3.27	4.13	—	44,289	44,289	1.54	6.90	109	46,493
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.07	0.90	1.76	18.9	0.00	0.00	4.70	4.70	0.00	1.10	1.10	—	4,642	4,642	0.19	0.16	0.50	4,696
Vendor	0.81	0.34	20.0	5.71	0.14	0.29	5.49	5.77	0.29	1.52	1.80	—	19,863	19,863	0.46	2.90	1.45	20,742
Hauling	2.01	0.74	52.2	12.7	0.29	0.85	12.0	12.8	0.85	3.27	4.13	—	44,299	44,299	1.53	6.90	2.84	46,396
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.43	0.77	9.55	0.00	0.00	2.19	2.19	0.00	0.51	0.51	—	2,263	2,263	0.09	0.08	3.98	2,292
Vendor	0.39	0.17	9.52	2.73	0.07	0.14	2.57	2.70	0.14	0.71	0.85	—	9,523	9,523	0.22	1.39	11.6	9,955
Hauling	0.97	0.36	24.8	6.06	0.14	0.41	5.60	6.01	0.41	1.54	1.95	—	21,236	21,236	0.74	3.31	22.6	22,263
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.14	1.74	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	375	375	0.01	0.01	0.66	380
Vendor	0.07	0.03	1.74	0.50	0.01	0.03	0.47	0.49	0.03	0.13	0.15	—	1,577	1,577	0.04	0.23	1.91	1,648
Hauling	0.18	0.07	4.53	1.11	0.03	0.07	1.02	1.10	0.07	0.28	0.36	—	3,516	3,516	0.12	0.55	3.74	3,686

3.2. Harvest Residuals (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.20	3.20	89.8	166	0.31	1.01	—	1.01	1.01	—	1.01	—	33,734	33,734	1.37	0.27	—	33,849

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.53	0.26	9.20	4.06	0.04	0.10	725	725	0.10	72.4	72.5	—	5,538	5,538	0.28	0.86	12.6	5,816
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.20	3.20	89.8	166	0.31	1.01	—	1.01	1.01	—	1.01	—	33,734	33,734	1.37	0.27	—	33,849
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.50	0.24	9.71	4.16	0.04	0.10	725	725	0.10	72.4	72.5	—	5,548	5,548	0.28	0.86	0.33	5,813
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.53	1.53	43.1	79.8	0.15	0.48	—	0.48	0.48	—	0.48	—	16,174	16,174	0.66	0.13	—	16,229
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.25	0.12	4.58	1.96	0.02	0.05	304	304	0.05	30.4	30.4	—	2,657	2,657	0.13	0.41	2.62	2,787
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	7.86	14.6	0.03	0.09	—	0.09	0.09	—	0.09	—	2,678	2,678	0.11	0.02	—	2,687

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.05	0.02	0.84	0.36	< 0.005	0.01	55.5	55.5	0.01	5.54	5.55	—	440	440	0.02	0.07	0.43	461
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.11	0.94	1.45	24.4	0.00	0.00	4.70	4.70	0.00	1.10	1.10	—	5,008	5,008	0.18	0.16	19.2	5,079
Vendor	0.82	0.35	19.0	5.66	0.14	0.29	5.49	5.77	0.29	1.52	1.80	—	19,861	19,861	0.46	2.90	55.7	20,794
Hauling	2.04	0.77	49.4	12.6	0.29	0.85	12.0	12.8	0.85	3.27	4.13	—	44,289	44,289	1.54	6.90	109	46,493
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.07	0.90	1.76	18.9	0.00	0.00	4.70	4.70	0.00	1.10	1.10	—	4,642	4,642	0.19	0.16	0.50	4,696
Vendor	0.81	0.34	20.0	5.71	0.14	0.29	5.49	5.77	0.29	1.52	1.80	—	19,863	19,863	0.46	2.90	1.45	20,742
Hauling	2.01	0.74	52.2	12.7	0.29	0.85	12.0	12.8	0.85	3.27	4.13	—	44,299	44,299	1.53	6.90	2.84	46,396
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.43	0.77	9.55	0.00	0.00	2.19	2.19	0.00	0.51	0.51	—	2,263	2,263	0.09	0.08	3.98	2,292
Vendor	0.39	0.17	9.52	2.73	0.07	0.14	2.57	2.70	0.14	0.71	0.85	—	9,523	9,523	0.22	1.39	11.6	9,955
Hauling	0.97	0.36	24.8	6.06	0.14	0.41	5.60	6.01	0.41	1.54	1.95	—	21,236	21,236	0.74	3.31	22.6	22,263
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.14	1.74	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	375	375	0.01	0.01	0.66	380
Vendor	0.07	0.03	1.74	0.50	0.01	0.03	0.47	0.49	0.03	0.13	0.15	—	1,577	1,577	0.04	0.23	1.91	1,648
Hauling	0.18	0.07	4.53	1.11	0.03	0.07	1.02	1.10	0.07	0.28	0.36	—	3,516	3,516	0.12	0.55	3.74	3,686

3.3. GSNR Biomass Only Thinning Projects (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	78.6	66.1	818	439	1.40	27.8	—	27.8	25.6	—	25.6	—	151,627	151,627	6.15	1.23	—	152,147
Dust From Material Movement	—	—	—	—	—	—	295	295	—	152	152	—	—	—	—	—	—	—
Onsite truck	0.55	0.27	9.54	4.21	0.04	0.10	752	752	0.10	75.2	75.3	—	5,748	5,748	0.29	0.90	13.1	6,036
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	78.6	66.1	818	439	1.40	27.8	—	27.8	25.6	—	25.6	—	151,627	151,627	6.15	1.23	—	152,147
Dust From Material Movement	—	—	—	—	—	—	295	295	—	152	152	—	—	—	—	—	—	—
Onsite truck	0.52	0.25	10.1	4.31	0.04	0.10	752	752	0.10	75.2	75.3	—	5,758	5,758	0.29	0.90	0.34	6,033
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	37.7	31.7	392	210	0.67	13.3	—	13.3	12.3	—	12.3	—	72,698	72,698	2.95	0.59	—	72,947
Dust From Material Movement	—	—	—	—	—	—	141	141	—	72.7	72.7	—	—	—	—	—	—	—

Onsite truck	0.26	0.13	4.75	2.04	0.02	0.05	315	316	0.05	31.5	31.6	—	2,758	2,758	0.14	0.43	2.71	2,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.88	5.78	71.6	38.4	0.12	2.43	—	2.43	2.24	—	2.24	—	12,036	12,036	0.49	0.10	—	12,077
Dust From Material Movement	—	—	—	—	—	—	25.8	25.8	—	13.3	13.3	—	—	—	—	—	—	—
Onsite truck	0.05	0.02	0.87	0.37	< 0.005	0.01	57.6	57.6	0.01	5.75	5.76	—	457	457	0.02	0.07	0.45	479
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.25	1.06	1.64	27.5	0.00	0.00	5.30	5.30	0.00	1.24	1.24	—	5,648	5,648	0.20	0.18	21.7	5,728
Vendor	0.86	0.37	19.9	5.94	0.15	0.30	5.76	6.06	0.30	1.59	1.89	—	20,854	20,854	0.48	3.05	58.5	21,834
Hauling	2.11	0.80	51.3	13.1	0.30	0.89	12.4	13.3	0.89	3.40	4.28	—	45,967	45,967	1.60	7.16	114	48,254
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.21	1.02	1.99	21.4	0.00	0.00	5.30	5.30	0.00	1.24	1.24	—	5,234	5,234	0.21	0.18	0.56	5,295
Vendor	0.85	0.36	21.0	6.00	0.15	0.30	5.76	6.06	0.30	1.59	1.89	—	20,856	20,856	0.49	3.05	1.52	21,779
Hauling	2.08	0.77	54.2	13.2	0.30	0.89	12.4	13.3	0.89	3.40	4.28	—	45,977	45,977	1.59	7.16	2.95	48,153
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.57	0.48	0.87	10.8	0.00	0.00	2.47	2.47	0.00	0.58	0.58	—	2,552	2,552	0.10	0.09	4.48	2,585
Vendor	0.41	0.18	9.99	2.86	0.07	0.15	2.69	2.84	0.15	0.75	0.89	—	9,999	9,999	0.23	1.46	12.1	10,453
Hauling	1.01	0.38	25.8	6.29	0.14	0.42	5.82	6.24	0.42	1.60	2.02	—	22,041	22,041	0.77	3.43	23.5	23,107
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.16	1.96	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	422	422	0.02	0.01	0.74	428

Vendor	0.07	0.03	1.82	0.52	0.01	0.03	0.49	0.52	0.03	0.14	0.16	—	1,655	1,655	0.04	0.24	2.01	1,731
Hauling	0.18	0.07	4.70	1.15	0.03	0.08	1.06	1.14	0.08	0.29	0.37	—	3,649	3,649	0.13	0.57	3.89	3,826

3.4. GSNR Biomass Only Thinning Projects (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	23.8	21.9	348	688	1.40	7.35	—	7.35	7.03	—	7.03	—	151,627	151,627	6.15	1.23	—	152,147
Dust From Material Movement	—	—	—	—	—	—	295	295	—	152	152	—	—	—	—	—	—	—
Onsite truck	0.55	0.27	9.54	4.21	0.04	0.10	752	752	0.10	75.2	75.3	—	5,748	5,748	0.29	0.90	13.1	6,036
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	23.8	21.9	348	688	1.40	7.35	—	7.35	7.03	—	7.03	—	151,627	151,627	6.15	1.23	—	152,147
Dust From Material Movement	—	—	—	—	—	—	295	295	—	152	152	—	—	—	—	—	—	—
Onsite truck	0.52	0.25	10.1	4.31	0.04	0.10	752	752	0.10	75.2	75.3	—	5,758	5,758	0.29	0.90	0.34	6,033
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	11.4	10.5	167	330	0.67	3.52	—	3.52	3.37	—	3.37	—	72,698	72,698	2.95	0.59	—	72,947
Dust From Material Movement	—	—	—	—	—	—	141	141	—	72.7	72.7	—	—	—	—	—	—	—
Onsite truck	0.26	0.13	4.75	2.04	0.02	0.05	315	316	0.05	31.5	31.6	—	2,758	2,758	0.14	0.43	2.71	2,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.08	1.92	30.4	60.2	0.12	0.64	—	0.64	0.61	—	0.61	—	12,036	12,036	0.49	0.10	—	12,077
Dust From Material Movement	—	—	—	—	—	—	25.8	25.8	—	13.3	13.3	—	—	—	—	—	—	—
Onsite truck	0.05	0.02	0.87	0.37	< 0.005	0.01	57.6	57.6	0.01	5.75	5.76	—	457	457	0.02	0.07	0.45	479
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.25	1.06	1.64	27.5	0.00	0.00	5.30	5.30	0.00	1.24	1.24	—	5,648	5,648	0.20	0.18	21.7	5,728
Vendor	0.86	0.37	19.9	5.94	0.15	0.30	5.76	6.06	0.30	1.59	1.89	—	20,854	20,854	0.48	3.05	58.5	21,834
Hauling	2.11	0.80	51.3	13.1	0.30	0.89	12.4	13.3	0.89	3.40	4.28	—	45,967	45,967	1.60	7.16	114	48,254
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.21	1.02	1.99	21.4	0.00	0.00	5.30	5.30	0.00	1.24	1.24	—	5,234	5,234	0.21	0.18	0.56	5,295
Vendor	0.85	0.36	21.0	6.00	0.15	0.30	5.76	6.06	0.30	1.59	1.89	—	20,856	20,856	0.49	3.05	1.52	21,779
Hauling	2.08	0.77	54.2	13.2	0.30	0.89	12.4	13.3	0.89	3.40	4.28	—	45,977	45,977	1.59	7.16	2.95	48,153
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.57	0.48	0.87	10.8	0.00	0.00	2.47	2.47	0.00	0.58	0.58	—	2,552	2,552	0.10	0.09	4.48	2,585

Vendor	0.41	0.18	9.99	2.86	0.07	0.15	2.69	2.84	0.15	0.75	0.89	—	9,999	9,999	0.23	1.46	12.1	10,453
Hauling	1.01	0.38	25.8	6.29	0.14	0.42	5.82	6.24	0.42	1.60	2.02	—	22,041	22,041	0.77	3.43	23.5	23,107
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.16	1.96	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	422	422	0.02	0.01	0.74	428
Vendor	0.07	0.03	1.82	0.52	0.01	0.03	0.49	0.52	0.03	0.14	0.16	—	1,655	1,655	0.04	0.24	2.01	1,731
Hauling	0.18	0.07	4.70	1.15	0.03	0.08	1.06	1.14	0.08	0.29	0.37	—	3,649	3,649	0.13	0.57	3.89	3,826

3.5. Mill Residuals (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.35	0.15	< 0.005	< 0.005	27.5	27.5	< 0.005	2.74	2.75	—	210	210	0.01	0.03	0.48	220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.37	0.16	< 0.005	< 0.005	27.5	27.5	< 0.005	2.74	2.75	—	210	210	0.01	0.03	0.01	220
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.26	0.11	< 0.005	< 0.005	17.1	17.1	< 0.005	1.71	1.71	—	150	150	0.01	0.02	0.15	157
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	3.12	3.12	< 0.005	0.31	0.31	—	24.8	24.8	< 0.005	< 0.005	0.02	26.0
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	0.63	0.19	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	662	662	0.02	0.10	1.86	693
Hauling	0.08	0.03	1.87	0.48	0.01	0.03	0.45	0.49	0.03	0.12	0.16	—	1,678	1,678	0.06	0.26	4.14	1,761
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	0.67	0.19	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	662	662	0.02	0.10	0.05	691
Hauling	0.08	0.03	1.98	0.48	0.01	0.03	0.45	0.49	0.03	0.12	0.16	—	1,678	1,678	0.06	0.26	0.11	1,757
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	0.47	0.14	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	472	472	0.01	0.07	0.57	493
Hauling	0.05	0.02	1.40	0.34	0.01	0.02	0.32	0.34	0.02	0.09	0.11	—	1,195	1,195	0.04	0.19	1.27	1,253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.1	78.1	< 0.005	0.01	0.09	81.6
Hauling	0.01	< 0.005	0.26	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	198	198	0.01	0.03	0.21	207

3.6. Mill Residuals (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.35	0.15	< 0.005	< 0.005	27.5	27.5	< 0.005	2.74	2.75	—	210	210	0.01	0.03	0.48	220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.37	0.16	< 0.005	< 0.005	27.5	27.5	< 0.005	2.74	2.75	—	210	210	0.01	0.03	0.01	220
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.26	0.11	< 0.005	< 0.005	17.1	17.1	< 0.005	1.71	1.71	—	150	150	0.01	0.02	0.15	157
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	3.12	3.12	< 0.005	0.31	0.31	—	24.8	24.8	< 0.005	< 0.005	0.02	26.0
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	0.63	0.19	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	662	662	0.02	0.10	1.86	693
Hauling	0.08	0.03	1.87	0.48	0.01	0.03	0.45	0.49	0.03	0.12	0.16	—	1,678	1,678	0.06	0.26	4.14	1,761
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	0.67	0.19	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	662	662	0.02	0.10	0.05	691
Hauling	0.08	0.03	1.98	0.48	0.01	0.03	0.45	0.49	0.03	0.12	0.16	—	1,678	1,678	0.06	0.26	0.11	1,757
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	0.47	0.14	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	472	472	0.01	0.07	0.57	493
Hauling	0.05	0.02	1.40	0.34	0.01	0.02	0.32	0.34	0.02	0.09	0.11	—	1,195	1,195	0.04	0.19	1.27	1,253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.1	78.1	< 0.005	0.01	0.09	81.6
Hauling	0.01	< 0.005	0.26	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	198	198	0.01	0.03	0.21	207

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Harvest Residuals	Site Preparation	4/7/2025	12/7/2025	5.00	175	—
GSNR Biomass Only Thinning Projects	Site Preparation	4/7/2025	12/7/2025	5.00	175	—
Mill Residuals	Site Preparation	1/1/2025	12/30/2025	5.00	260	—

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
Harvest Residuals	Tractors/Loaders/Backhoes	Diesel	Average	16.0	10.0	207	0.37
Harvest Residuals	Other Construction Equipment	Diesel	Average	5.00	8.00	998	0.42

GSNR Biomass Only Thinning Projects	Rubber Tired Dozers	Diesel	Average	36.0	10.0	219	0.40
GSNR Biomass Only Thinning Projects	Tractors/Loaders/Back hoes	Diesel	Average	18.0	10.0	207	0.37
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Average	36.0	10.0	286	0.42
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Average	18.0	8.00	998	0.29

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Harvest Residuals	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	16.0	10.0	207	0.37
Harvest Residuals	Other Construction Equipment	Diesel	Tier 4 Final	5.00	8.00	998	0.42
GSNR Biomass Only Thinning Projects	Rubber Tired Dozers	Diesel	Tier 4 Final	36.0	10.0	219	0.40
GSNR Biomass Only Thinning Projects	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	18.0	10.0	207	0.37
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Average	18.0	10.0	286	0.42
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Tier 4 Final	18.0	10.0	286	0.42
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Tier 4 Final	18.0	8.00	998	0.29

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Harvest Residuals	—	—	—	—
Harvest Residuals	Worker	188	35.4	LDA,LDT1,LDT2

Harvest Residuals	Vendor	120	54.5	HHDT,MHDT
Harvest Residuals	Hauling	264	48.9	HHDT
Harvest Residuals	Onsite truck	264	5.65	HHDT
GSNR Biomass Only Thinning Projects	—	—	—	—
GSNR Biomass Only Thinning Projects	Worker	212	35.4	LDA,LDT1,LDT2
GSNR Biomass Only Thinning Projects	Vendor	126	54.5	HHDT,MHDT
GSNR Biomass Only Thinning Projects	Hauling	274	48.9	HHDT
GSNR Biomass Only Thinning Projects	Onsite truck	274	5.65	HHDT
Mill Residuals	—	—	—	—
Mill Residuals	Worker	0.00	35.4	LDA,LDT1,LDT2
Mill Residuals	Vendor	4.00	54.5	HHDT,MHDT
Mill Residuals	Hauling	10.0	48.9	HHDT
Mill Residuals	Onsite truck	10.0	5.65	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Harvest Residuals	—	—	—	—
Harvest Residuals	Worker	188	35.4	LDA,LDT1,LDT2
Harvest Residuals	Vendor	120	54.5	HHDT,MHDT
Harvest Residuals	Hauling	264	48.9	HHDT
Harvest Residuals	Onsite truck	264	5.65	HHDT
GSNR Biomass Only Thinning Projects	—	—	—	—
GSNR Biomass Only Thinning Projects	Worker	212	35.4	LDA,LDT1,LDT2

GSNR Biomass Only Thinning Projects	Vendor	126	54.5	HHDT,MHDT
GSNR Biomass Only Thinning Projects	Hauling	274	48.9	HHDT
GSNR Biomass Only Thinning Projects	Onsite truck	274	5.65	HHDT
Mill Residuals	—	—	—	—
Mill Residuals	Worker	0.00	35.4	LDA,LDT1,LDT2
Mill Residuals	Vendor	4.00	54.5	HHDT,MHDT
Mill Residuals	Hauling	10.0	48.9	HHDT
Mill Residuals	Onsite truck	10.0	5.65	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Limit vehicle speeds on unpaved roads to 25 mph	67%	67%

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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Harvest Residuals	—	—	0.00	0.00	—
GSNR Biomass Only Thinning Projects	—	—	0.00	0.00	—

Mill Residuals	—	—	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	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
2025	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	25.9	annual days of extreme heat
Extreme Precipitation	1.60	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	20.0	annual hectares burned

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

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

6.2. Initial Climate Risk Scores

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

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	55.4
AQ-PM	0.46
AQ-DPM	0.91
Drinking Water	10.4
Lead Risk Housing	51.0
Pesticides	60.4
Toxic Releases	1.26
Traffic	0.20
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	80.6
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	58.7
Solid Waste	98.8
Sensitive Population	—
Asthma	49.8

Cardio-vascular	32.3
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	27.6
Housing	5.48
Linguistic	0.51
Poverty	59.1
Unemployment	—

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	28.75657641
Employed	0.82124984
Median HI	15.05196972
Education	—
Bachelor's or higher	23.67509303
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	64.27563198
Active commuting	71.3845759
Social	—
2-parent households	47.6324907
Voting	85.02502246
Neighborhood	—
Alcohol availability	85.43564738

Park access	33.01680996
Retail density	0.076992172
Supermarket access	2.399589375
Tree canopy	75.2213525
Housing	—
Homeownership	85.58963172
Housing habitability	92.41627101
Low-inc homeowner severe housing cost burden	81.6501989
Low-inc renter severe housing cost burden	83.61349929
Uncrowded housing	93.6609778
Health Outcomes	—
Insured adults	21.67329655
Arthritis	0.0
Asthma ER Admissions	87.5
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	98.3
Cognitively Disabled	32.0
Physically Disabled	0.8
Heart Attack ER Admissions	51.6
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	12.7
SLR Inundation Area	0.0
Children	94.5
Elderly	10.1
English Speaking	85.0
Foreign-born	4.0
Outdoor Workers	3.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	98.2
Traffic Density	0.2
Traffic Access	0.0
Other Indices	—
Hardship	53.3
Other Decision Support	—
2016 Voting	78.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	20.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Concurrent feedstock operations.
Construction: Off-Road Equipment	Based on applicant provided information. Tractors/Loaders/Backhoes (207 HP) = Loader (Heel Boom) Rubber Tired Dozers (219 HP) = Rubber Tired Skidders Other Construction Equipment (286 HP) = Feller Bunchers Other Construction Equipment (998 HP) = Chippers
Construction: Trips and VMT	Applicant provided information. Rounded trips up to nearest even integer. On-site trucks account for travel on unpaved roads during feedstock acquisition.
Construction: On-Road Fugitive Dust	Applicant provided information.
Characteristics: Project Details	Statewide analysis level because feedstock acquisition would take place in multiple air districts.
Construction: Dust From Material Movement	No grading.

GSNR Tuolumne Facility - Mitigated Con Mitigated Op v2 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GSNR Tuolumne Facility - Mitigated Con Mitigated Op v2
Construction Start Date	10/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.10
Precipitation (days)	46.4
Location	12001 La Grange Rd, Jamestown, CA 95327, USA
County	Tuolumne
City	Unincorporated
Air District	Tuolumne County APCD
Air Basin	Mountain Counties
TAZ	3034
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.28

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
Manufacturing	256	1000sqft	39.3	256,220	0.00	—	—	—

Parking Lot	5.00	Acre	5.00	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	15.0	Acre	15.0	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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.	16.8	14.2	160	159	0.50	4.36	25.4	29.8	4.05	5.88	9.93	—	55,995	55,995	1.00	5.08	84.3	57,618
Mit.	10.3	8.95	103	171	0.50	1.85	25.4	27.3	1.76	5.88	7.64	—	55,995	55,995	1.00	5.08	84.3	57,618
% Reduced	39%	37%	35%	-8%	—	58%	—	8%	57%	—	23%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	338	336	164	150	0.50	4.36	25.4	29.8	4.05	6.54	10.0	—	55,484	55,484	1.02	5.08	2.18	57,026
Mit.	335	334	108	162	0.50	1.85	25.4	27.3	1.76	6.54	7.64	—	55,484	55,484	1.02	5.08	2.18	57,026
% Reduced	1%	1%	34%	-8%	—	58%	—	8%	57%	—	24%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.5	24.2	61.9	69.2	0.16	1.84	6.72	8.56	1.70	1.64	3.34	—	19,678	19,678	0.48	1.33	12.6	20,100

Mit.	23.0	22.2	39.5	76.4	0.16	0.86	6.72	7.58	0.81	1.64	2.44	—	19,678	19,678	0.48	1.33	12.6	20,100
% Reduced	10%	8%	36%	-10%	—	53%	—	11%	52%	—	27%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.65	4.42	11.3	12.6	0.03	0.34	1.23	1.56	0.31	0.30	0.61	—	3,258	3,258	0.08	0.22	2.09	3,328
Mit.	4.19	4.05	7.22	13.9	0.03	0.16	1.23	1.38	0.15	0.30	0.45	—	3,258	3,258	0.08	0.22	2.09	3,328
% Reduced	10%	8%	36%	-10%	—	53%	—	11%	52%	—	27%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	16.8	14.2	160	159	0.50	4.36	25.4	29.8	4.05	5.88	9.93	—	55,995	55,995	1.00	5.08	84.3	57,618
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	11.2	9.37	133	94.4	0.41	3.75	24.6	28.3	3.48	6.54	10.0	—	42,063	42,063	0.65	4.26	1.47	43,349
2025	338	336	164	150	0.50	4.36	25.4	29.8	4.05	5.88	9.93	—	55,484	55,484	1.02	5.08	2.18	57,026
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.72	0.60	8.09	6.20	0.03	0.23	1.29	1.52	0.21	0.31	0.53	—	2,753	2,753	0.05	0.26	1.55	2,834
2025	25.5	24.2	61.9	69.2	0.16	1.84	6.72	8.56	1.70	1.64	3.34	—	19,678	19,678	0.48	1.33	12.6	20,100
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.13	0.11	1.48	1.13	< 0.005	0.04	0.24	0.28	0.04	0.06	0.10	—	456	456	0.01	0.04	0.26	469
2025	4.65	4.42	11.3	12.6	0.03	0.34	1.23	1.56	0.31	0.30	0.61	—	3,258	3,258	0.08	0.22	2.09	3,328

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	10.3	8.95	103	171	0.50	1.85	25.4	27.3	1.76	5.88	7.64	—	55,995	55,995	1.00	5.08	84.3	57,618
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.29	2.96	67.8	98.0	0.41	0.73	24.6	25.3	0.72	6.54	7.26	—	42,063	42,063	0.65	4.26	1.47	43,349
2025	335	334	108	162	0.50	1.85	25.4	27.3	1.76	5.88	7.64	—	55,484	55,484	1.02	5.08	2.18	57,026
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.24	0.21	4.31	7.07	0.03	0.05	1.29	1.34	0.05	0.31	0.36	—	2,753	2,753	0.05	0.26	1.55	2,834
2025	23.0	22.2	39.5	76.4	0.16	0.86	6.72	7.58	0.81	1.64	2.44	—	19,678	19,678	0.48	1.33	12.6	20,100
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.04	0.04	0.79	1.29	< 0.005	0.01	0.24	0.24	0.01	0.06	0.07	—	456	456	0.01	0.04	0.26	469
2025	4.19	4.05	7.22	13.9	0.03	0.16	1.23	1.38	0.15	0.30	0.45	—	3,258	3,258	0.08	0.22	2.09	3,328

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.	8.59	8.44	4.81	46.3	0.08	0.11	3.79	3.90	0.11	0.96	1.07	994	61,876	62,870	142	1.42	83.7	66,939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.56	8.41	5.39	41.6	0.08	0.11	3.79	3.90	0.11	0.96	1.07	994	61,552	62,546	142	1.45	67.1	66,605

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.52	8.38	5.05	40.0	0.08	0.10	3.68	3.78	0.10	0.93	1.03	994	61,293	62,288	142	1.44	74.0	66,351
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.56	1.53	0.92	7.30	0.01	0.02	0.67	0.69	0.02	0.17	0.19	165	10,148	10,312	23.6	0.24	12.3	10,985

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	0.88	0.73	2.92	20.2	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	5,006	5,006	0.09	0.24	17.0	5,096
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	0.36	0.36	1.89	26.1	0.04	0.07	—	0.07	0.07	—	0.07	—	3,841	3,841	0.16	0.03	—	3,854
Total	8.59	8.44	4.81	46.3	0.08	0.11	3.79	3.90	0.11	0.96	1.07	994	61,876	62,870	142	1.42	83.7	66,939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.70	3.50	15.5	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	4,682	4,682	0.09	0.26	0.44	4,762
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	0.36	0.36	1.89	26.1	0.04	0.07	—	0.07	0.07	—	0.07	—	3,841	3,841	0.16	0.03	—	3,854
Total	8.56	8.41	5.39	41.6	0.08	0.11	3.79	3.90	0.11	0.96	1.07	994	61,552	62,546	142	1.45	67.1	66,605
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.70	3.31	16.1	0.05	0.04	3.68	3.71	0.03	0.93	0.97	—	4,739	4,739	0.09	0.25	7.35	4,824
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	0.33	0.33	1.74	24.0	0.03	0.07	—	0.07	0.07	—	0.07	—	3,525	3,525	0.14	0.03	—	3,537
Total	8.52	8.38	5.05	40.0	0.08	0.10	3.68	3.78	0.10	0.93	1.03	994	61,293	62,288	142	1.44	74.0	66,351
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	0.13	0.60	2.93	0.01	0.01	0.67	0.68	0.01	0.17	0.18	—	785	785	0.02	0.04	1.22	799
Area	1.34	1.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	8,772	8,772	1.42	0.17	—	8,859
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155
Waste	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Off-Road	0.06	0.06	0.32	4.37	0.01	0.01	—	0.01	0.01	—	0.01	—	584	584	0.02	< 0.005	—	586
Total	1.56	1.53	0.92	7.30	0.01	0.02	0.67	0.69	0.02	0.17	0.19	165	10,148	10,312	23.6	0.24	12.3	10,985

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	0.88	0.73	2.92	20.2	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	5,006	5,006	0.09	0.24	17.0	5,096
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	0.36	0.36	1.89	26.1	0.04	0.07	—	0.07	0.07	—	0.07	—	3,841	3,841	0.16	0.03	—	3,854
Total	8.59	8.44	4.81	46.3	0.08	0.11	3.79	3.90	0.11	0.96	1.07	994	61,876	62,870	142	1.42	83.7	66,939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.70	3.50	15.5	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	4,682	4,682	0.09	0.26	0.44	4,762
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	0.36	0.36	1.89	26.1	0.04	0.07	—	0.07	0.07	—	0.07	—	3,841	3,841	0.16	0.03	—	3,854
Total	8.56	8.41	5.39	41.6	0.08	0.11	3.79	3.90	0.11	0.96	1.07	994	61,552	62,546	142	1.45	67.1	66,605
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.70	3.31	16.1	0.05	0.04	3.68	3.71	0.03	0.93	0.97	—	4,739	4,739	0.09	0.25	7.35	4,824
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	0.33	0.33	1.74	24.0	0.03	0.07	—	0.07	0.07	—	0.07	—	3,525	3,525	0.14	0.03	—	3,537
Total	8.52	8.38	5.05	40.0	0.08	0.10	3.68	3.78	0.10	0.93	1.03	994	61,293	62,288	142	1.44	74.0	66,351
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	0.13	0.60	2.93	0.01	0.01	0.67	0.68	0.01	0.17	0.18	—	785	785	0.02	0.04	1.22	799
Area	1.34	1.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	8,772	8,772	1.42	0.17	—	8,859
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155
Waste	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Off-Road	0.06	0.06	0.32	4.37	0.01	0.01	—	0.01	0.01	—	0.01	—	584	584	0.02	< 0.005	—	586
Total	1.56	1.53	0.92	7.30	0.01	0.02	0.67	0.69	0.02	0.17	0.19	165	10,148	10,312	23.6	0.24	12.3	10,985

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	18.4	22.0	0.05	0.85	—	0.85	0.78	—	0.78	—	5,143	5,143	0.21	0.04	—	5,160

Demoliti	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.11	0.04	< 0.005	< 0.005	0.33	0.33	< 0.005	0.03	0.03	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.21	2.65	0.01	0.10	—	0.10	0.09	—	0.09	—	620	620	0.03	0.01	—	622
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.48	< 0.005	0.02	—	0.02	0.02	—	0.02	—	103	103	< 0.005	< 0.005	—	103
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.20	0.48	4.36	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	678	678	0.03	0.02	0.08	685
Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.01	0.01	0.62	0.05	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	290	290	< 0.005	0.05	0.01	304
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.54	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	83.0	83.0	< 0.005	< 0.005	0.17	84.0

Vendor	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	57.8	57.8	< 0.005	0.01	0.06	60.4
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.0	35.0	< 0.005	0.01	0.03	36.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.10	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.03	13.9
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.57	9.57	< 0.005	< 0.005	0.01	10.0
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.79	5.79	< 0.005	< 0.005	< 0.005	6.07

3.2. Demolition (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.66	4.01	30.6	0.05	0.14	—	0.14	0.14	—	0.14	—	5,143	5,143	0.21	0.04	—	5,160
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.11	0.04	< 0.005	< 0.005	0.33	0.33	< 0.005	0.03	0.03	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.48	3.68	0.01	0.02	—	0.02	0.02	—	0.02	—	620	620	0.03	0.01	—	622
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.09	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	103	103	< 0.005	< 0.005	—	103
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.20	0.48	4.36	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	678	678	0.03	0.02	0.08	685
Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.01	0.01	0.62	0.05	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	290	290	< 0.005	0.05	0.01	304
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.54	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	83.0	83.0	< 0.005	< 0.005	0.17	84.0
Vendor	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	57.8	57.8	< 0.005	0.01	0.06	60.4
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.0	35.0	< 0.005	0.01	0.03	36.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.10	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.03	13.9
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.57	9.57	< 0.005	< 0.005	0.01	10.0
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.79	5.79	< 0.005	< 0.005	< 0.005	6.07

3.3. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.52	9.52	< 0.005	< 0.005	< 0.005	9.97
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.08	0.99	< 0.005	0.05	—	0.05	0.04	—	0.04	—	160	160	0.01	< 0.005	—	160
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.20	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.4	26.4	< 0.005	< 0.005	—	26.5

Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.20	0.48	4.36	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	678	678	0.03	0.02	0.08	685
Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	0.04	21.0
Vendor	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.02	15.1
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.43	3.43	< 0.005	< 0.005	0.01	3.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.39	2.39	< 0.005	< 0.005	< 0.005	2.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2024) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.52	9.52	< 0.005	< 0.005	< 0.005	9.97
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.08	0.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	160	160	0.01	< 0.005	—	160
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.4	26.4	< 0.005	< 0.005	—	26.5
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.20	0.48	4.36	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	678	678	0.03	0.02	0.08	685
Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	0.04	21.0
Vendor	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.02	15.1
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.43	3.43	< 0.005	< 0.005	0.01	3.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.39	2.39	< 0.005	< 0.005	< 0.005	2.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Rail Spurs Construction (2025) - Unmitigated

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

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

Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.52	9.52	< 0.005	< 0.005	0.01	9.98
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.40	9.40	< 0.005	< 0.005	< 0.005	9.85
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.40	3.82	3.77	0.01	0.16	—	0.16	0.15	—	0.15	—	804	804	0.03	0.01	—	807
Dust From Material Movement	—	—	—	—	—	—	0.41	0.41	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.09	0.07	0.70	0.69	< 0.005	0.03	—	0.03	0.03	—	0.03	—	133	133	0.01	< 0.005	—	134
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.39
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.11	0.18	2.90	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	403	403	0.01	0.01	1.68	409
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
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	0.12	0.10	0.25	2.24	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	370	370	0.01	0.01	0.04	374
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.55	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	89.5	89.5	< 0.005	< 0.005	0.17	90.7
Vendor	< 0.005	< 0.005	0.20	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.12	118
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	< 0.005	0.01	0.10	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.7	18.7	< 0.005	< 0.005	0.02	19.5
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

3.6. Rail Spurs Construction (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	1.65	18.4	0.03	0.06	—	0.06	0.06	—	0.06	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.52	9.52	< 0.005	< 0.005	0.01	9.98
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	1.65	18.4	0.03	0.06	—	0.06	0.06	—	0.06	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.40	9.40	< 0.005	< 0.005	< 0.005	9.85
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.39	4.39	0.01	0.02	—	0.02	0.02	—	0.02	—	804	804	0.03	0.01	—	807

Dust From Material Movement	—	—	—	—	—	—	0.41	0.41	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.80	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	133	133	0.01	< 0.005	—	134
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.39
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.11	0.18	2.90	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	403	403	0.01	0.01	1.68	409
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
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	0.12	0.10	0.25	2.24	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	370	370	0.01	0.01	0.04	374
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.55	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	89.5	89.5	< 0.005	< 0.005	0.17	90.7
Vendor	< 0.005	< 0.005	0.20	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.12	118

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	< 0.005	0.01	0.10	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.7	18.7	< 0.005	< 0.005	0.02	19.5
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

3.7. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.9	21.4	0.03	0.89	—	0.89	0.82	—	0.82	—	3,425	3,425	0.14	0.03	—	3,437
Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.11	0.09	3.09	1.11	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	404	404	< 0.005	0.06	0.01	424
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.15	1.30	< 0.005	0.05	—	0.05	0.05	—	0.05	—	208	208	0.01	< 0.005	—	209

Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.06	< 0.005	< 0.005	0.49	0.49	< 0.005	0.05	0.05	—	24.7	24.7	< 0.005	< 0.005	0.01	25.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	4.10	4.10	< 0.005	< 0.005	< 0.005	4.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.43	3.87	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	602	602	0.02	0.02	0.07	609
Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.87	0.73	51.6	3.89	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	24,086	24,086	< 0.005	3.75	1.12	25,205
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.24	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	37.1	37.1	< 0.005	< 0.005	0.07	37.6
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.1	29.1	< 0.005	< 0.005	0.03	30.4
Hauling	0.05	0.04	3.09	0.23	0.02	0.02	0.32	0.34	0.02	0.09	0.11	—	1,461	1,461	< 0.005	0.23	1.12	1,530
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.15	6.15	< 0.005	< 0.005	0.01	6.22

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.81	4.81	< 0.005	< 0.005	0.01	5.03
Hauling	0.01	0.01	0.56	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	242	242	< 0.005	0.04	0.19	253

3.8. Grading (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	1.68	21.0	0.03	0.06	—	0.06	0.06	—	0.06	—	3,425	3,425	0.14	0.03	—	3,437
Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.11	0.09	3.09	1.11	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	404	404	< 0.005	0.06	0.01	424
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	1.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	208	208	0.01	< 0.005	—	209
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.06	< 0.005	< 0.005	0.49	0.49	< 0.005	0.05	0.05	—	24.7	24.7	< 0.005	< 0.005	0.01	25.9

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	4.10	4.10	< 0.005	< 0.005	< 0.005	4.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.43	3.87	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	602	602	0.02	0.02	0.07	609
Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.87	0.73	51.6	3.89	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	24,086	24,086	< 0.005	3.75	1.12	25,205
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.24	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	37.1	37.1	< 0.005	< 0.005	0.07	37.6
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.1	29.1	< 0.005	< 0.005	0.03	30.4
Hauling	0.05	0.04	3.09	0.23	0.02	0.02	0.32	0.34	0.02	0.09	0.11	—	1,461	1,461	< 0.005	0.23	1.12	1,530
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.15	6.15	< 0.005	< 0.005	0.01	6.22
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.81	4.81	< 0.005	< 0.005	0.01	5.03
Hauling	0.01	0.01	0.56	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	242	242	< 0.005	0.04	0.19	253

3.9. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.83	16.8	20.4	0.03	0.76	—	0.76	0.70	—	0.70	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.11	0.10	3.02	1.04	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	405	405	< 0.005	0.06	0.31	424
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.83	16.8	20.4	0.03	0.76	—	0.76	0.70	—	0.70	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.11	0.09	3.06	1.13	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	399	399	< 0.005	0.06	0.01	419
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.99	3.64	0.01	0.14	—	0.14	0.12	—	0.12	—	610	610	0.02	< 0.005	—	612

Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.02	0.02	0.54	0.19	< 0.005	< 0.005	1.45	1.45	< 0.005	0.14	0.15	—	71.7	71.7	< 0.005	0.01	0.02	75.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.55	0.66	< 0.005	0.02	—	0.02	0.02	—	0.02	—	101	101	< 0.005	< 0.005	—	101
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	11.9	11.9	< 0.005	< 0.005	< 0.005	12.4
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.28	4.65	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	645	645	0.02	0.02	2.68	654
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
Hauling	0.75	0.73	46.6	3.56	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	23,749	23,749	< 0.005	3.75	42.7	24,910
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.16	0.39	3.59	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	592	592	0.02	0.02	0.07	598
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.74	0.73	49.4	3.65	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	23,744	23,744	< 0.005	3.75	1.11	24,863
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.06	0.66	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	107	107	< 0.005	< 0.005	0.21	108
Vendor	< 0.005	< 0.005	0.15	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.2	84.2	< 0.005	0.01	0.09	88.0

Hauling	0.13	0.13	8.71	0.64	0.05	0.07	0.94	1.01	0.07	0.26	0.33	—	4,229	4,229	< 0.005	0.67	3.26	4,431
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.03	17.9
Vendor	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	0.02	14.6
Hauling	0.02	0.02	1.59	0.12	0.01	0.01	0.17	0.18	0.01	0.05	0.06	—	700	700	< 0.005	0.11	0.54	734

3.10. Grading (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	1.68	21.0	0.03	0.06	—	0.06	0.06	—	0.06	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.11	0.10	3.02	1.04	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	405	405	< 0.005	0.06	0.31	424
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	1.68	21.0	0.03	0.06	—	0.06	0.06	—	0.06	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—

Onsite truck	0.11	0.09	3.06	1.13	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	399	399	< 0.005	0.06	0.01	419
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.30	3.75	0.01	0.01	—	0.01	0.01	—	0.01	—	610	610	0.02	< 0.005	—	612
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.02	0.02	0.54	0.19	< 0.005	< 0.005	1.45	1.45	< 0.005	0.14	0.15	—	71.7	71.7	< 0.005	0.01	0.02	75.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	101	101	< 0.005	< 0.005	—	101
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	11.9	11.9	< 0.005	< 0.005	< 0.005	12.4
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.28	4.65	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	645	645	0.02	0.02	2.68	654
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
Hauling	0.75	0.73	46.6	3.56	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	23,749	23,749	< 0.005	3.75	42.7	24,910
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.16	0.39	3.59	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	592	592	0.02	0.02	0.07	598

Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.74	0.73	49.4	3.65	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	23,744	23,744	< 0.005	3.75	1.11	24,863
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.06	0.66	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	107	107	< 0.005	< 0.005	0.21	108
Vendor	< 0.005	< 0.005	0.15	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.2	84.2	< 0.005	0.01	0.09	88.0
Hauling	0.13	0.13	8.71	0.64	0.05	0.07	0.94	1.01	0.07	0.26	0.33	—	4,229	4,229	< 0.005	0.67	3.26	4,431
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.03	17.9
Vendor	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	0.02	14.6
Hauling	0.02	0.02	1.59	0.12	0.01	0.01	0.17	0.18	0.01	0.05	0.06	—	700	700	< 0.005	0.11	0.54	734

3.11. Building/Vertical Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.16	6.78	56.4	63.2	0.12	2.09	—	2.09	1.92	—	1.92	—	11,087	11,087	0.45	0.09	—	11,126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.16	6.78	56.4	63.2	0.12	2.09	—	2.09	1.92	—	1.92	—	11,087	11,087	0.45	0.09	—	11,126

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.83	4.02	33.4	37.4	0.07	1.24	—	1.24	1.14	—	1.14	—	6,561	6,561	0.27	0.05	—	6,584
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.73	6.09	6.82	0.01	0.23	—	0.23	0.21	—	0.21	—	1,086	1,086	0.04	0.01	—	1,090
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.48	1.23	1.90	31.4	0.00	0.00	3.83	3.83	0.00	0.90	0.90	—	4,353	4,353	0.15	0.13	18.1	4,413
Vendor	0.22	0.18	8.29	1.32	0.03	0.07	1.27	1.33	0.07	0.34	0.41	—	4,968	4,968	< 0.005	0.72	12.6	5,195
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	1.33	1.07	2.65	24.2	0.00	0.00	3.83	3.83	0.00	0.90	0.90	—	3,993	3,993	0.16	0.13	0.47	4,037
Vendor	0.18	0.18	8.84	1.29	0.03	0.07	1.27	1.33	0.07	0.34	0.41	—	4,967	4,967	< 0.005	0.72	0.33	5,182
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	0.78	0.63	1.42	14.8	0.00	0.00	2.20	2.20	0.00	0.51	0.51	—	2,401	2,401	0.09	0.08	4.62	2,431
Vendor	0.13	0.11	5.15	0.77	0.02	0.04	0.73	0.77	0.04	0.20	0.24	—	2,940	2,940	< 0.005	0.43	3.21	3,070

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	0.14	0.11	0.26	2.70	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	397	397	0.02	0.01	0.77	402
Vendor	0.02	0.02	0.94	0.14	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	487	487	< 0.005	0.07	0.53	508
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building/Vertical Construction (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.71	4.83	34.7	71.4	0.12	1.14	—	1.14	1.06	—	1.06	—	11,087	11,087	0.45	0.09	—	11,126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.71	4.83	34.7	71.4	0.12	1.14	—	1.14	1.06	—	1.06	—	11,087	11,087	0.45	0.09	—	11,126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.38	2.86	20.5	42.3	0.07	0.67	—	0.67	0.62	—	0.62	—	6,561	6,561	0.27	0.05	—	6,584

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	0.52	3.75	7.71	0.01	0.12	—	0.12	0.11	—	0.11	—	1,086	1,086	0.04	0.01	—	1,090
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.48	1.23	1.90	31.4	0.00	0.00	3.83	3.83	0.00	0.90	0.90	—	4,353	4,353	0.15	0.13	18.1	4,413
Vendor	0.22	0.18	8.29	1.32	0.03	0.07	1.27	1.33	0.07	0.34	0.41	—	4,968	4,968	< 0.005	0.72	12.6	5,195
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	1.33	1.07	2.65	24.2	0.00	0.00	3.83	3.83	0.00	0.90	0.90	—	3,993	3,993	0.16	0.13	0.47	4,037
Vendor	0.18	0.18	8.84	1.29	0.03	0.07	1.27	1.33	0.07	0.34	0.41	—	4,967	4,967	< 0.005	0.72	0.33	5,182
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	0.78	0.63	1.42	14.8	0.00	0.00	2.20	2.20	0.00	0.51	0.51	—	2,401	2,401	0.09	0.08	4.62	2,431
Vendor	0.13	0.11	5.15	0.77	0.02	0.04	0.73	0.77	0.04	0.20	0.24	—	2,940	2,940	< 0.005	0.43	3.21	3,070
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	0.14	0.11	0.26	2.70	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	397	397	0.02	0.01	0.77	402
Vendor	0.02	0.02	0.94	0.14	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	487	487	< 0.005	0.07	0.53	508
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

3.13. Utility Line Stringing (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	1.59	16.4	12.9	0.04	0.62	—	0.62	0.57	—	0.57	—	3,789	3,789	0.15	0.03	—	3,802
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.38	3.95	3.11	0.01	0.15	—	0.15	0.14	—	0.14	—	913	913	0.04	0.01	—	917
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.72	0.57	< 0.005	0.03	—	0.03	0.03	—	0.03	—	151	151	0.01	< 0.005	—	152
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.33	0.27	0.42	6.97	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	967	967	0.03	0.03	4.03	981
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
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	0.07	0.06	0.13	1.34	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	217	217	0.01	0.01	0.42	220
Vendor	< 0.005	< 0.005	0.20	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	114	114	< 0.005	0.02	0.12	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.24	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.0	36.0	< 0.005	< 0.005	0.07	36.4
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.9	18.9	< 0.005	< 0.005	0.02	19.7
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

3.14. Utility Line Stringing (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.59	4.65	19.4	0.04	0.14	—	0.14	0.13	—	0.13	—	3,789	3,789	0.15	0.03	—	3,802
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.14	1.12	4.68	0.01	0.03	—	0.03	0.03	—	0.03	—	913	913	0.04	0.01	—	917
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.20	0.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	151	151	0.01	< 0.005	—	152
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.27	0.42	6.97	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	967	967	0.03	0.03	4.03	981
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
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	0.07	0.06	0.13	1.34	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	217	217	0.01	0.01	0.42	220
Vendor	< 0.005	< 0.005	0.20	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	114	114	< 0.005	0.02	0.12	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.24	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.0	36.0	< 0.005	< 0.005	0.07	36.4
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.9	18.9	< 0.005	< 0.005	0.02	19.7
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

3.15. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.86	1.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	174	174	0.01	< 0.005	—	175
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.16	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.8	28.8	< 0.005	< 0.005	—	28.9
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.28	4.65	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	645	645	0.02	0.02	2.68	654
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
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	0.20	0.16	0.39	3.59	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	592	592	0.02	0.02	0.07	598
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
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	0.02	0.02	0.04	0.43	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	69.2	69.2	< 0.005	< 0.005	0.13	70.0
Vendor	< 0.005	< 0.005	0.10	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	54.4	54.4	< 0.005	0.01	0.06	56.8
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.01	9.01	< 0.005	< 0.005	0.01	9.41
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

3.16. Paving (2025) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.27	1.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	174	174	0.01	< 0.005	—	175
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.8	28.8	< 0.005	< 0.005	—	28.9
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.28	4.65	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	645	645	0.02	0.02	2.68	654
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
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	0.20	0.16	0.39	3.59	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	592	592	0.02	0.02	0.07	598
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
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	0.02	0.02	0.04	0.43	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	69.2	69.2	< 0.005	< 0.005	0.13	70.0
Vendor	< 0.005	< 0.005	0.10	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	54.4	54.4	< 0.005	0.01	0.06	56.8
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.01	9.01	< 0.005	< 0.005	0.01	9.41
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

3.17. Architectural Coating (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	327	327	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	17.9	17.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	3.27	3.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.43	1.08	9.86	0.00	0.00	1.56	1.56	0.00	0.37	0.37	—	1,627	1,627	0.07	0.05	0.19	1,645
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.56	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	90.6	90.6	< 0.005	< 0.005	0.17	91.7
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.9	25.9	< 0.005	< 0.005	0.03	27.1
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.03	15.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.29	4.29	< 0.005	< 0.005	< 0.005	4.48
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

3.18. Architectural Coating (2025) - Mitigated

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

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

Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	327	327	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	17.9	17.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	3.27	3.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.43	1.08	9.86	0.00	0.00	1.56	1.56	0.00	0.37	0.37	—	1,627	1,627	0.07	0.05	0.19	1,645
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.56	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	90.6	90.6	< 0.005	< 0.005	0.17	91.7
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.9	25.9	< 0.005	< 0.005	0.03	27.1
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.03	15.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.29	4.29	< 0.005	< 0.005	< 0.005	4.48
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.86	0.71	1.24	20.1	0.04	0.02	3.59	3.61	0.02	0.91	0.93	—	4,148	4,148	0.09	0.10	15.5	4,195
Parking Lot	0.03	0.02	1.68	0.13	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	858	858	< 0.005	0.14	1.54	900

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.88	0.73	2.92	20.2	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	5,006	5,006	0.09	0.24	17.0	5,096
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.82	0.67	1.71	15.4	0.04	0.02	3.59	3.61	0.02	0.91	0.93	—	3,823	3,823	0.09	0.12	0.40	3,863
Parking Lot	0.03	0.02	1.79	0.13	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	858	858	< 0.005	0.14	0.04	899
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.85	0.70	3.50	15.5	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	4,682	4,682	0.09	0.26	0.44	4,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.15	0.12	0.28	2.91	0.01	< 0.005	0.64	0.64	< 0.005	0.16	0.16	—	643	643	0.02	0.02	1.11	650
Parking Lot	0.01	< 0.005	0.32	0.02	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	142	142	< 0.005	0.02	0.11	149
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.15	0.13	0.60	2.93	0.01	0.01	0.67	0.68	0.01	0.17	0.18	—	785	785	0.02	0.04	1.22	799

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.86	0.71	1.24	20.1	0.04	0.02	3.59	3.61	0.02	0.91	0.93	—	4,148	4,148	0.09	0.10	15.5	4,195

Parking Lot	0.03	0.02	1.68	0.13	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	858	858	< 0.005	0.14	1.54	900
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.88	0.73	2.92	20.2	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	5,006	5,006	0.09	0.24	17.0	5,096
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.82	0.67	1.71	15.4	0.04	0.02	3.59	3.61	0.02	0.91	0.93	—	3,823	3,823	0.09	0.12	0.40	3,863
Parking Lot	0.03	0.02	1.79	0.13	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	858	858	< 0.005	0.14	0.04	899
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.85	0.70	3.50	15.5	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	4,682	4,682	0.09	0.26	0.44	4,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.15	0.12	0.28	2.91	0.01	< 0.005	0.64	0.64	< 0.005	0.16	0.16	—	643	643	0.02	0.02	1.11	650
Parking Lot	0.01	< 0.005	0.32	0.02	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	142	142	< 0.005	0.02	0.11	149
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.15	0.13	0.60	2.93	0.01	0.01	0.67	0.68	0.01	0.17	0.18	—	785	785	0.02	0.04	1.22	799

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	8,772	8,772	1.42	0.17	—	8,859
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,772	8,772	1.42	0.17	—	8,859

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	8,772	8,772	1.42	0.17	—	8,859
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,772	8,772	1.42	0.17	—	8,859

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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

Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.55	5.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.79	1.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.55	5.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.79	1.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	1.01	1.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.34	1.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.55	5.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.79	1.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.55	5.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.79	1.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	1.01	1.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.34	1.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufac	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufac turing	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufac turing	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.10	0.10	0.53	7.52	0.01	0.02	—	0.02	0.02	—	0.02	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.14	0.14	0.74	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,503	1,503	0.06	0.01	—	1,509
Other Construction Equipment	0.04	0.04	0.19	1.93	< 0.005	0.01	—	0.01	0.01	—	0.01	—	392	392	0.02	< 0.005	—	393
Total	0.36	0.36	1.89	26.1	0.04	0.07	—	0.07	0.07	—	0.07	—	3,841	3,841	0.16	0.03	—	3,854
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.10	0.10	0.53	7.52	0.01	0.02	—	0.02	0.02	—	0.02	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874

Rubber Tired Loaders	0.14	0.14	0.74	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,503	1,503	0.06	0.01	—	1,509
Other Construction Equipment	0.04	0.04	0.19	1.93	< 0.005	0.01	—	0.01	0.01	—	0.01	—	392	392	0.02	< 0.005	—	393
Total	0.36	0.36	1.89	26.1	0.04	0.07	—	0.07	0.07	—	0.07	—	3,841	3,841	0.16	0.03	—	3,854
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.02	0.02	0.09	1.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	163	163	0.01	< 0.005	—	164
Tractors/ Loaders/ Backhoes	0.01	0.01	0.07	1.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	132	132	0.01	< 0.005	—	133
Rubber Tired Loaders	0.02	0.02	0.12	1.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	228	228	0.01	< 0.005	—	229
Other Construction Equipment	0.01	0.01	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.5	59.5	< 0.005	< 0.005	—	59.7
Total	0.06	0.06	0.32	4.37	0.01	0.01	—	0.01	0.01	—	0.01	—	584	584	0.02	< 0.005	—	586

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.10	0.10	0.53	7.52	0.01	0.02	—	0.02	0.02	—	0.02	—	1,074	1,074	0.04	0.01	—	1,078

Tractors/ Loaders/ Backhoe	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.14	0.14	0.74	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,503	1,503	0.06	0.01	—	1,509
Other Construction Equipment	0.04	0.04	0.19	1.93	< 0.005	0.01	—	0.01	0.01	—	0.01	—	392	392	0.02	< 0.005	—	393
Total	0.36	0.36	1.89	26.1	0.04	0.07	—	0.07	0.07	—	0.07	—	3,841	3,841	0.16	0.03	—	3,854
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.10	0.10	0.53	7.52	0.01	0.02	—	0.02	0.02	—	0.02	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/ Loaders/ Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.14	0.14	0.74	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,503	1,503	0.06	0.01	—	1,509
Other Construction Equipment	0.04	0.04	0.19	1.93	< 0.005	0.01	—	0.01	0.01	—	0.01	—	392	392	0.02	< 0.005	—	393
Total	0.36	0.36	1.89	26.1	0.04	0.07	—	0.07	0.07	—	0.07	—	3,841	3,841	0.16	0.03	—	3,854
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.02	0.02	0.09	1.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	163	163	0.01	< 0.005	—	164
Tractors/ Loaders/ Backhoes	0.01	0.01	0.07	1.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	132	132	0.01	< 0.005	—	133

Rubber Tired Loaders	0.02	0.02	0.12	1.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	228	228	0.01	< 0.005	—	229
Other Construction Equipment	0.01	0.01	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.5	59.5	< 0.005	< 0.005	—	59.7
Total	0.06	0.06	0.32	4.37	0.01	0.01	—	0.01	0.01	—	0.01	—	584	584	0.02	< 0.005	—	586

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2024	12/1/2024	5.00	44.0	—

Site Preparation	Site Preparation	11/15/2024	12/1/2024	5.00	11.0	—
Rail Spurs Construction	Site Preparation	1/1/2025	5/1/2025	5.00	87.0	—
Grading	Grading	12/1/2024	4/1/2025	5.00	87.0	—
Building/Vertical Construction	Building Construction	2/1/2025	12/1/2025	5.00	216	—
Utility Line Stringing	Building Construction	4/2/2025	8/2/2025	5.00	88.0	—
Paving	Paving	2/1/2025	4/1/2025	5.00	42.0	—
Architectural Coating	Architectural Coating	11/1/2025	11/30/2025	5.00	20.0	—

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	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	172	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	367	0.40
Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Rail Spurs Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Rail Spurs Construction	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Rail Spurs Construction	Excavators	Diesel	Average	1.00	8.00	172	0.38
Rail Spurs Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	280	0.42
Grading	Excavators	Diesel	Average	1.00	8.00	172	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Building/Vertical Construction	Cranes	Diesel	Average	5.00	7.00	367	0.29
Building/Vertical Construction	Forklifts	Diesel	Average	8.00	8.00	82.0	0.20
Building/Vertical Construction	Generator Sets	Diesel	Average	6.00	8.00	14.0	0.74
Building/Vertical Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building/Vertical Construction	Welders	Diesel	Average	20.0	8.00	46.0	0.45
Utility Line Stringing	Cranes	Diesel	Average	1.00	7.00	367	0.29
Utility Line Stringing	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Utility Line Stringing	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Utility Line Stringing	Aerial Lifts	Diesel	Average	2.00	8.00	46.0	0.31
Utility Line Stringing	Other Construction Equipment	Diesel	Average	2.00	8.00	270	0.42
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	172	0.38
Demolition	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Crawler Tractors	Diesel	Tier 4 Final	1.00	8.00	87.0	0.43

Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Rail Spurs Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Rail Spurs Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Rail Spurs Construction	Excavators	Diesel	Tier 4 Final	1.00	8.00	172	0.38
Rail Spurs Construction	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	280	0.42
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	172	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Building/Vertical Construction	Cranes	Diesel	Tier 4 Final	5.00	7.00	367	0.29
Building/Vertical Construction	Forklifts	Diesel	Tier 4 Final	8.00	8.00	82.0	0.20
Building/Vertical Construction	Generator Sets	Diesel	Average	6.00	8.00	14.0	0.74
Building/Vertical Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building/Vertical Construction	Welders	Diesel	Average	20.0	8.00	46.0	0.45
Utility Line Stringing	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Utility Line Stringing	Forklifts	Diesel	Tier 4 Final	2.00	8.00	82.0	0.20
Utility Line Stringing	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Utility Line Stringing	Aerial Lifts	Diesel	Average	2.00	8.00	46.0	0.31
Utility Line Stringing	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	270	0.42
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	18.0	50.2	LDA,LDT1,LDT2
Demolition	Vendor	4.00	35.0	HHDT,MHDT
Demolition	Hauling	2.00	35.0	HHDT
Demolition	Onsite truck	6.00	0.25	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	50.2	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	35.0	HHDT,MHDT
Site Preparation	Hauling	0.00	35.0	HHDT
Site Preparation	Onsite truck	4.00	0.25	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	50.2	LDA,LDT1,LDT2
Grading	Vendor	4.00	35.0	HHDT,MHDT
Grading	Hauling	166	35.0	HHDT
Grading	Onsite truck	170	0.25	HHDT
Building/Vertical Construction	—	—	—	—
Building/Vertical Construction	Worker	108	50.2	LDA,LDT1,LDT2
Building/Vertical Construction	Vendor	42.0	35.0	HHDT,MHDT
Building/Vertical Construction	Hauling	0.00	35.0	HHDT
Building/Vertical Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	16.0	50.2	LDA,LDT1,LDT2
Paving	Vendor	4.00	35.0	HHDT,MHDT
Paving	Hauling	0.00	35.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	44.0	50.2	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	35.0	HHDT,MHDT
Architectural Coating	Hauling	0.00	35.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Rail Spurs Construction	—	—	—	—
Rail Spurs Construction	Worker	10.0	50.2	LDA,LDT1,LDT2
Rail Spurs Construction	Vendor	4.00	35.0	HHDT,MHDT
Rail Spurs Construction	Hauling	0.00	35.0	HHDT
Rail Spurs Construction	Onsite truck	4.00	0.25	HHDT
Utility Line Stringing	—	—	—	—
Utility Line Stringing	Worker	24.0	50.2	LDA,LDT1,LDT2
Utility Line Stringing	Vendor	4.00	35.0	HHDT,MHDT
Utility Line Stringing	Hauling	0.00	35.0	HHDT
Utility Line Stringing	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	18.0	50.2	LDA,LDT1,LDT2
Demolition	Vendor	4.00	35.0	HHDT,MHDT
Demolition	Hauling	2.00	35.0	HHDT
Demolition	Onsite truck	6.00	0.25	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	50.2	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	35.0	HHDT,MHDT
Site Preparation	Hauling	0.00	35.0	HHDT
Site Preparation	Onsite truck	4.00	0.25	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	50.2	LDA,LDT1,LDT2
Grading	Vendor	4.00	35.0	HHDT,MHDT
Grading	Hauling	166	35.0	HHDT
Grading	Onsite truck	170	0.25	HHDT
Building/Vertical Construction	—	—	—	—
Building/Vertical Construction	Worker	108	50.2	LDA,LDT1,LDT2
Building/Vertical Construction	Vendor	42.0	35.0	HHDT,MHDT
Building/Vertical Construction	Hauling	0.00	35.0	HHDT
Building/Vertical Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	50.2	LDA,LDT1,LDT2
Paving	Vendor	4.00	35.0	HHDT,MHDT
Paving	Hauling	0.00	35.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	44.0	50.2	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	35.0	HHDT,MHDT
Architectural Coating	Hauling	0.00	35.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Rail Spurs Construction	—	—	—	—
Rail Spurs Construction	Worker	10.0	50.2	LDA,LDT1,LDT2
Rail Spurs Construction	Vendor	4.00	35.0	HHDT,MHDT

Rail Spurs Construction	Hauling	0.00	35.0	HHDT
Rail Spurs Construction	Onsite truck	4.00	0.25	HHDT
Utility Line Stringing	—	—	—	—
Utility Line Stringing	Worker	24.0	50.2	LDA,LDT1,LDT2
Utility Line Stringing	Vendor	4.00	35.0	HHDT,MHDT
Utility Line Stringing	Hauling	0.00	35.0	HHDT
Utility Line Stringing	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	67%	67%

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	0.00	0.00	384,330	128,110	52,272

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	6,000	—
Site Preparation	—	—	16.5	0.00	—
Rail Spurs Construction	—	—	43.5	0.00	—

Grading	—	114,675	45.0	0.00	—
Paving	0.00	0.00	0.00	0.00	20.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	5.00	100%
Other Non-Asphalt Surfaces	15.0	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	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
Manufacturing	102	102	102	37,230	5,120	5,120	5,120	1,868,946
Parking Lot	6.00	6.00	6.00	2,190	210	210	210	76,650

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Manufacturing	102	102	102	37,230	5,120	5,120	5,120	1,868,946
Parking Lot	6.00	6.00	6.00	2,190	210	210	210	76,650
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	384,330	128,110	52,272

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

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)
Manufacturing	94,807,680	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Manufacturing	94,807,680	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	25,000,000	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	25,000,000	0.00

Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	1,845	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	1,845	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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
Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	24.0	96.0	0.40
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	24.0	84.0	0.37
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	24.0	150	0.36
Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	200	0.42

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	24.0	96.0	0.40
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	24.0	84.0	0.37
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	24.0	150	0.36
Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	200	0.42

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.0	annual days of extreme heat
Extreme Precipitation	5.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	12.5	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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

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	74.1
AQ-PM	43.5
AQ-DPM	1.19
Drinking Water	76.4
Lead Risk Housing	5.56
Pesticides	5.90
Toxic Releases	14.6
Traffic	5.30
Effect Indicators	—
CleanUp Sites	46.1
Groundwater	48.5
Haz Waste Facilities/Generators	26.7
Impaired Water Bodies	72.2
Solid Waste	87.1
Sensitive Population	—
Asthma	71.7
Cardio-vascular	60.1
Low Birth Weights	43.5
Socioeconomic Factor Indicators	—
Education	51.5
Housing	19.4
Linguistic	9.46
Poverty	38.3
Unemployment	64.5

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	79.5072501
Employed	0.808417811
Median HI	46.37495188
Education	—
Bachelor's or higher	25.15077634
High school enrollment	100
Preschool enrollment	73.56602079
Transportation	—
Auto Access	75.69613756
Active commuting	1.039394328
Social	—
2-parent households	22.08392147
Voting	74.42576671
Neighborhood	—
Alcohol availability	97.0101373
Park access	17.24624663
Retail density	0.192480431
Supermarket access	15.01347363
Tree canopy	88.64365456
Housing	—
Homeownership	89.43924034
Housing habitability	80.61080457
Low-inc homeowner severe housing cost burden	18.74759399
Low-inc renter severe housing cost burden	86.23123316
Uncrowded housing	70.98678301
Health Outcomes	—

Insured adults	65.30219428
Arthritis	0.0
Asthma ER Admissions	49.2
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	18.6
Cognitively Disabled	19.2
Physically Disabled	9.6
Heart Attack ER Admissions	18.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	64.2
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	8.7
SLR Inundation Area	0.0
Children	91.6
Elderly	15.1

English Speaking	89.1
Foreign-born	4.8
Outdoor Workers	66.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	98.7
Traffic Density	5.5
Traffic Access	0.0
Other Indices	—
Hardship	57.6
Other Decision Support	—
2016 Voting	85.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	44.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on applicant provided information.
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information. Increased excavators hp to 172. Other construction equipment at 280 hp represents a rail tamper. Other construction equipment at 270 hp represents tensioners.
Operations: Solid Waste	Includes solid waste from ash.
Construction: Dust From Material Movement	From grading plan.
Construction: Trips and VMT	Applicant provided trip lengths. Rounded trips up to nearest even integer. Added vendor trucks.
Operations: Water and Waste Water	Based on applicant provided information.
Operations: Off-Road Equipment	Equipment in log storage area, fuel storage area, and dryer furnace area. Other construction equipment represents a trackmobile. Assumed to operate 48 weeks per year.
Operations: Fleet Mix	Fleet mix based on trips during operations. Manufacturing land use accounts for workers. Parking lot land use includes ash removal trucks 0and vendor trucks.
Operations: Energy Use	Electricity provided by project applicant. No natural gas. Includes electric forklift electricity consumption.
Operations: Vehicle Data	Trip rate back-calculated from daily trips.

GSNR Tuolumne Facility - Unmitigated Con Unmitigated Op v3 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GSNR Tuolumne Facility - Unmitigated Con Unmitigated Op v3
Construction Start Date	10/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.10
Precipitation (days)	46.4
Location	12001 La Grange Rd, Jamestown, CA 95327, USA
County	Tuolumne
City	Unincorporated
Air District	Tuolumne County APCD
Air Basin	Mountain Counties
TAZ	3034
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.28

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
Manufacturing	256	1000sqft	39.3	256,220	0.00	—	—	—

Parking Lot	5.00	Acre	5.00	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	15.0	Acre	15.0	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.8	14.2	160	159	0.50	4.36	25.4	29.8	4.05	5.88	9.93	—	55,995	55,995	1.00	5.08	84.3	57,618
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	338	336	164	150	0.50	4.36	25.4	29.8	4.05	6.54	10.0	—	55,484	55,484	1.02	5.08	2.18	57,026
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.5	24.2	61.9	69.2	0.16	1.84	6.72	8.56	1.70	1.64	3.34	—	19,678	19,678	0.48	1.33	12.6	20,100
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.65	4.42	11.3	12.6	0.03	0.34	1.23	1.56	0.31	0.30	0.61	—	3,258	3,258	0.08	0.22	2.09	3,328

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	16.8	14.2	160	159	0.50	4.36	25.4	29.8	4.05	5.88	9.93	—	55,995	55,995	1.00	5.08	84.3	57,618
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	11.2	9.37	133	94.4	0.41	3.75	24.6	28.3	3.48	6.54	10.0	—	42,063	42,063	0.65	4.26	1.47	43,349
2025	338	336	164	150	0.50	4.36	25.4	29.8	4.05	5.88	9.93	—	55,484	55,484	1.02	5.08	2.18	57,026
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.72	0.60	8.09	6.20	0.03	0.23	1.29	1.52	0.21	0.31	0.53	—	2,753	2,753	0.05	0.26	1.55	2,834
2025	25.5	24.2	61.9	69.2	0.16	1.84	6.72	8.56	1.70	1.64	3.34	—	19,678	19,678	0.48	1.33	12.6	20,100
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.13	0.11	1.48	1.13	< 0.005	0.04	0.24	0.28	0.04	0.06	0.10	—	456	456	0.01	0.04	0.26	469
2025	4.65	4.42	11.3	12.6	0.03	0.34	1.23	1.56	0.31	0.30	0.61	—	3,258	3,258	0.08	0.22	2.09	3,328

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.	9.85	9.44	15.9	42.8	0.08	0.54	3.79	4.33	0.50	0.96	1.46	994	61,876	62,870	142	1.42	83.7	66,939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.81	9.40	16.4	38.2	0.08	0.54	3.79	4.33	0.50	0.96	1.46	994	61,552	62,546	142	1.45	67.1	66,605
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.68	9.29	15.2	36.9	0.08	0.50	3.68	4.18	0.46	0.93	1.39	994	61,293	62,288	142	1.44	74.0	66,351

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.77	1.70	2.77	6.73	0.01	0.09	0.67	0.76	0.08	0.17	0.25	165	10,148	10,312	23.6	0.24	12.3	10,985

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	0.88	0.73	2.92	20.2	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	5,006	5,006	0.09	0.24	17.0	5,096
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	1.62	1.36	12.9	22.7	0.04	0.51	—	0.51	0.47	—	0.47	—	3,841	3,841	0.16	0.03	—	3,854
Total	9.85	9.44	15.9	42.8	0.08	0.54	3.79	4.33	0.50	0.96	1.46	994	61,876	62,870	142	1.42	83.7	66,939
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.70	3.50	15.5	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	4,682	4,682	0.09	0.26	0.44	4,762
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	1.62	1.36	12.9	22.7	0.04	0.51	—	0.51	0.47	—	0.47	—	3,841	3,841	0.16	0.03	—	3,854
Total	9.81	9.40	16.4	38.2	0.08	0.54	3.79	4.33	0.50	0.96	1.46	994	61,552	62,546	142	1.45	67.1	66,605

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.70	3.31	16.1	0.05	0.04	3.68	3.71	0.03	0.93	0.97	—	4,739	4,739	0.09	0.25	7.35	4,824
Area	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52,984	52,984	8.57	1.04	—	53,508
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Waste	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Off-Road	1.49	1.25	11.9	20.8	0.03	0.46	—	0.46	0.43	—	0.43	—	3,525	3,525	0.14	0.03	—	3,537
Total	9.68	9.29	15.2	36.9	0.08	0.50	3.68	4.18	0.46	0.93	1.39	994	61,293	62,288	142	1.44	74.0	66,351
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	0.13	0.60	2.93	0.01	0.01	0.67	0.68	0.01	0.17	0.18	—	785	785	0.02	0.04	1.22	799
Area	1.34	1.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	8,772	8,772	1.42	0.17	—	8,859
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155
Waste	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Off-Road	0.27	0.23	2.17	3.80	0.01	0.08	—	0.08	0.08	—	0.08	—	584	584	0.02	< 0.005	—	586
Total	1.77	1.70	2.77	6.73	0.01	0.09	0.67	0.76	0.08	0.17	0.25	165	10,148	10,312	23.6	0.24	12.3	10,985

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	18.4	22.0	0.05	0.85	—	0.85	0.78	—	0.78	—	5,143	5,143	0.21	0.04	—	5,160
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.11	0.04	< 0.005	< 0.005	0.33	0.33	< 0.005	0.03	0.03	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.21	2.65	0.01	0.10	—	0.10	0.09	—	0.09	—	620	620	0.03	0.01	—	622
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.48	< 0.005	0.02	—	0.02	0.02	—	0.02	—	103	103	< 0.005	< 0.005	—	103
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.20	0.48	4.36	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	678	678	0.03	0.02	0.08	685
Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.01	0.01	0.62	0.05	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	290	290	< 0.005	0.05	0.01	304
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.54	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	83.0	83.0	< 0.005	< 0.005	0.17	84.0
Vendor	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	57.8	57.8	< 0.005	0.01	0.06	60.4
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.0	35.0	< 0.005	0.01	0.03	36.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.10	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.03	13.9
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.57	9.57	< 0.005	< 0.005	0.01	10.0
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.79	5.79	< 0.005	< 0.005	< 0.005	6.07

3.3. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.52	9.52	< 0.005	< 0.005	< 0.005	9.97
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.08	0.99	< 0.005	0.05	—	0.05	0.04	—	0.04	—	160	160	0.01	< 0.005	—	160
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.20	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.4	26.4	< 0.005	< 0.005	—	26.5
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.20	0.48	4.36	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	678	678	0.03	0.02	0.08	685

Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	0.04	21.0
Vendor	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.02	15.1
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.43	3.43	< 0.005	< 0.005	0.01	3.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.39	2.39	< 0.005	< 0.005	< 0.005	2.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Rail Spurs Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.52	9.52	< 0.005	< 0.005	0.01	9.98
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	—	9.40	9.40	< 0.005	< 0.005	< 0.005	9.85
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.40	3.82	3.77	0.01	0.16	—	0.16	0.15	—	0.15	—	804	804	0.03	0.01	—	807
Dust From Material Movement	—	—	—	—	—	—	0.41	0.41	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.70	0.69	< 0.005	0.03	—	0.03	0.03	—	0.03	—	133	133	0.01	< 0.005	—	134
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.39
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.11	0.18	2.90	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	403	403	0.01	0.01	1.68	409
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495

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	0.12	0.10	0.25	2.24	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	370	370	0.01	0.01	0.04	374
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.55	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	89.5	89.5	< 0.005	< 0.005	0.17	90.7
Vendor	< 0.005	< 0.005	0.20	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.12	118
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	< 0.005	0.01	0.10	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.7	18.7	< 0.005	< 0.005	0.02	19.5
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

3.7. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.9	21.4	0.03	0.89	—	0.89	0.82	—	0.82	—	3,425	3,425	0.14	0.03	—	3,437

Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.11	0.09	3.09	1.11	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	404	404	< 0.005	0.06	0.01	424
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.15	1.30	< 0.005	0.05	—	0.05	0.05	—	0.05	—	208	208	0.01	< 0.005	—	209
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.06	< 0.005	< 0.005	0.49	0.49	< 0.005	0.05	0.05	—	24.7	24.7	< 0.005	< 0.005	0.01	25.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	4.10	4.10	< 0.005	< 0.005	< 0.005	4.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.43	3.87	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	602	602	0.02	0.02	0.07	609

Vendor	0.02	0.02	0.89	0.14	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	479	479	< 0.005	0.07	0.03	501
Hauling	0.87	0.73	51.6	3.89	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	24,086	24,086	< 0.005	3.75	1.12	25,205
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.24	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	37.1	37.1	< 0.005	< 0.005	0.07	37.6
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.1	29.1	< 0.005	< 0.005	0.03	30.4
Hauling	0.05	0.04	3.09	0.23	0.02	0.02	0.32	0.34	0.02	0.09	0.11	—	1,461	1,461	< 0.005	0.23	1.12	1,530
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.15	6.15	< 0.005	< 0.005	0.01	6.22
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.81	4.81	< 0.005	< 0.005	0.01	5.03
Hauling	0.01	0.01	0.56	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	242	242	< 0.005	0.04	0.19	253

3.9. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.83	16.8	20.4	0.03	0.76	—	0.76	0.70	—	0.70	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.11	0.10	3.02	1.04	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	405	405	< 0.005	0.06	0.31	424
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.18	1.83	16.8	20.4	0.03	0.76	—	0.76	0.70	—	0.70	—	3,426	3,426	0.14	0.03	—	3,438
Dust From Material Movement	—	—	—	—	—	—	1.87	1.87	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.11	0.09	3.06	1.13	0.01	0.01	9.30	9.31	0.01	0.93	0.94	—	399	399	< 0.005	0.06	0.01	419
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.99	3.64	0.01	0.14	—	0.14	0.12	—	0.12	—	610	610	0.02	< 0.005	—	612
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.02	0.02	0.54	0.19	< 0.005	< 0.005	1.45	1.45	< 0.005	0.14	0.15	—	71.7	71.7	< 0.005	0.01	0.02	75.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.55	0.66	< 0.005	0.02	—	0.02	0.02	—	0.02	—	101	101	< 0.005	< 0.005	—	101
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	11.9	11.9	< 0.005	< 0.005	< 0.005	12.4
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.28	4.65	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	645	645	0.02	0.02	2.68	654
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495

Hauling	0.75	0.73	46.6	3.56	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	23,749	23,749	< 0.005	3.75	42.7	24,910
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.16	0.39	3.59	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	592	592	0.02	0.02	0.07	598
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.74	0.73	49.4	3.65	0.26	0.39	5.39	5.77	0.39	1.47	1.86	—	23,744	23,744	< 0.005	3.75	1.11	24,863
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.06	0.66	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	107	107	< 0.005	< 0.005	0.21	108
Vendor	< 0.005	< 0.005	0.15	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.2	84.2	< 0.005	0.01	0.09	88.0
Hauling	0.13	0.13	8.71	0.64	0.05	0.07	0.94	1.01	0.07	0.26	0.33	—	4,229	4,229	< 0.005	0.67	3.26	4,431
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.03	17.9
Vendor	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	0.02	14.6
Hauling	0.02	0.02	1.59	0.12	0.01	0.01	0.17	0.18	0.01	0.05	0.06	—	700	700	< 0.005	0.11	0.54	734

3.11. Building/Vertical Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.16	6.78	56.4	63.2	0.12	2.09	—	2.09	1.92	—	1.92	—	11,087	11,087	0.45	0.09	—	11,126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.16	6.78	56.4	63.2	0.12	2.09	—	2.09	1.92	—	1.92	—	11,087	11,087	0.45	0.09	—	11,126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.83	4.02	33.4	37.4	0.07	1.24	—	1.24	1.14	—	1.14	—	6,561	6,561	0.27	0.05	—	6,584
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.73	6.09	6.82	0.01	0.23	—	0.23	0.21	—	0.21	—	1,086	1,086	0.04	0.01	—	1,090
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.48	1.23	1.90	31.4	0.00	0.00	3.83	3.83	0.00	0.90	0.90	—	4,353	4,353	0.15	0.13	18.1	4,413
Vendor	0.22	0.18	8.29	1.32	0.03	0.07	1.27	1.33	0.07	0.34	0.41	—	4,968	4,968	< 0.005	0.72	12.6	5,195
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	1.33	1.07	2.65	24.2	0.00	0.00	3.83	3.83	0.00	0.90	0.90	—	3,993	3,993	0.16	0.13	0.47	4,037

Vendor	0.18	0.18	8.84	1.29	0.03	0.07	1.27	1.33	0.07	0.34	0.41	—	4,967	4,967	< 0.005	0.72	0.33	5,182
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	0.78	0.63	1.42	14.8	0.00	0.00	2.20	2.20	0.00	0.51	0.51	—	2,401	2,401	0.09	0.08	4.62	2,431
Vendor	0.13	0.11	5.15	0.77	0.02	0.04	0.73	0.77	0.04	0.20	0.24	—	2,940	2,940	< 0.005	0.43	3.21	3,070
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	0.14	0.11	0.26	2.70	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	397	397	0.02	0.01	0.77	402
Vendor	0.02	0.02	0.94	0.14	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	487	487	< 0.005	0.07	0.53	508
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

3.13. Utility Line Stringing (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	1.59	16.4	12.9	0.04	0.62	—	0.62	0.57	—	0.57	—	3,789	3,789	0.15	0.03	—	3,802
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.46	0.38	3.95	3.11	0.01	0.15	—	0.15	0.14	—	0.14	—	913	913	0.04	0.01	—	917
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.72	0.57	< 0.005	0.03	—	0.03	0.03	—	0.03	—	151	151	0.01	< 0.005	—	152
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.27	0.42	6.97	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	967	967	0.03	0.03	4.03	981
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
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	0.07	0.06	0.13	1.34	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	217	217	0.01	0.01	0.42	220
Vendor	< 0.005	< 0.005	0.20	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	114	114	< 0.005	0.02	0.12	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.24	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.0	36.0	< 0.005	< 0.005	0.07	36.4
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.9	18.9	< 0.005	< 0.005	0.02	19.7
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

3.15. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.86	1.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	174	174	0.01	< 0.005	—	175
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.16	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.8	28.8	< 0.005	< 0.005	—	28.9
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.18	0.28	4.65	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	645	645	0.02	0.02	2.68	654
Vendor	0.02	0.02	0.79	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	1.20	495
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	0.20	0.16	0.39	3.59	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	592	592	0.02	0.02	0.07	598
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
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	0.02	0.02	0.04	0.43	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	69.2	69.2	< 0.005	< 0.005	0.13	70.0
Vendor	< 0.005	< 0.005	0.10	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	54.4	54.4	< 0.005	0.01	0.06	56.8
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.01	9.01	< 0.005	< 0.005	0.01	9.41
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

3.17. Architectural Coating (2025) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	327	327	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	17.9	17.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	3.27	3.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.43	1.08	9.86	0.00	0.00	1.56	1.56	0.00	0.37	0.37	—	1,627	1,627	0.07	0.05	0.19	1,645
Vendor	0.02	0.02	0.84	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	473	473	< 0.005	0.07	0.03	493
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.56	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	90.6	90.6	< 0.005	< 0.005	0.17	91.7
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.9	25.9	< 0.005	< 0.005	0.03	27.1
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.03	15.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.29	4.29	< 0.005	< 0.005	< 0.005	4.48
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.86	0.71	1.24	20.1	0.04	0.02	3.59	3.61	0.02	0.91	0.93	—	4,148	4,148	0.09	0.10	15.5	4,195
Parking Lot	0.03	0.02	1.68	0.13	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	858	858	< 0.005	0.14	1.54	900
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.88	0.73	2.92	20.2	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	5,006	5,006	0.09	0.24	17.0	5,096
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.82	0.67	1.71	15.4	0.04	0.02	3.59	3.61	0.02	0.91	0.93	—	3,823	3,823	0.09	0.12	0.40	3,863
Parking Lot	0.03	0.02	1.79	0.13	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	858	858	< 0.005	0.14	0.04	899
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.85	0.70	3.50	15.5	0.05	0.04	3.79	3.82	0.03	0.96	1.00	—	4,682	4,682	0.09	0.26	0.44	4,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.15	0.12	0.28	2.91	0.01	< 0.005	0.64	0.64	< 0.005	0.16	0.16	—	643	643	0.02	0.02	1.11	650
Parking Lot	0.01	< 0.005	0.32	0.02	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	142	142	< 0.005	0.02	0.11	149
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	0.15	0.13	0.60	2.93	0.01	0.01	0.67	0.68	0.01	0.17	0.18	—	785	785	0.02	0.04	1.22	799

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52,984	52,984	8.57	1.04	—	53,508
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	8,772	8,772	1.42	0.17	—	8,859
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	8,772	8,772	1.42	0.17	—	8,859

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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

Other Non-Asphalt Surfaces	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.55	5.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.79	1.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.55	5.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.79	1.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	7.34	7.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	1.01	1.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.34	1.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	0.00	45.5	45.5	34.3	0.12	—	937
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	7.54	7.54	5.67	0.02	—	155

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	994	0.00	994	99.4	0.00	—	3,478
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	165	0.00	165	16.5	0.00	—	576

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.7	66.7

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.29	0.24	3.44	6.54	0.01	0.07	—	0.07	0.07	—	0.07	—	1,074	1,074	0.04	0.01	—	1,078
Tractors/Loaders/Backhoes	0.38	0.32	3.30	5.73	0.01	0.13	—	0.13	0.12	—	0.12	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.77	0.64	4.58	9.38	0.01	0.24	—	0.24	0.22	—	0.22	—	1,503	1,503	0.06	0.01	—	1,509
Other Construction Equipment	0.18	0.15	1.61	1.01	< 0.005	0.06	—	0.06	0.06	—	0.06	—	392	392	0.02	< 0.005	—	393
Total	1.62	1.36	12.9	22.7	0.04	0.51	—	0.51	0.47	—	0.47	—	3,841	3,841	0.16	0.03	—	3,854
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.29	0.24	3.44	6.54	0.01	0.07	—	0.07	0.07	—	0.07	—	1,074	1,074	0.04	0.01	—	1,078

Tractors/	0.38	0.32	3.30	5.73	0.01	0.13	—	0.13	0.12	—	0.12	—	871	871	0.04	0.01	—	874
Rubber Tired Loaders	0.77	0.64	4.58	9.38	0.01	0.24	—	0.24	0.22	—	0.22	—	1,503	1,503	0.06	0.01	—	1,509
Other Construction Equipment	0.18	0.15	1.61	1.01	< 0.005	0.06	—	0.06	0.06	—	0.06	—	392	392	0.02	< 0.005	—	393
Total	1.62	1.36	12.9	22.7	0.04	0.51	—	0.51	0.47	—	0.47	—	3,841	3,841	0.16	0.03	—	3,854
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rough Terrain Forklifts	0.05	0.04	0.58	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	163	163	0.01	< 0.005	—	164
Tractors/ Loaders/ Backhoes	0.06	0.05	0.55	0.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	132	132	0.01	< 0.005	—	133
Rubber Tired Loaders	0.13	0.11	0.77	1.57	< 0.005	0.04	—	0.04	0.04	—	0.04	—	228	228	0.01	< 0.005	—	229
Other Construction Equipment	0.03	0.03	0.27	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	59.5	59.5	< 0.005	< 0.005	—	59.7
Total	0.27	0.23	2.17	3.80	0.01	0.08	—	0.08	0.08	—	0.08	—	584	584	0.02	< 0.005	—	586

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2024	12/1/2024	5.00	44.0	—
Site Preparation	Site Preparation	11/15/2024	12/1/2024	5.00	11.0	—
Rail Spurs Construction	Site Preparation	1/1/2025	5/1/2025	5.00	87.0	—
Grading	Grading	12/1/2024	4/1/2025	5.00	87.0	—
Building/Vertical Construction	Building Construction	2/1/2025	12/1/2025	5.00	216	—
Utility Line Stringing	Building Construction	4/2/2025	8/2/2025	5.00	88.0	—
Paving	Paving	2/1/2025	4/1/2025	5.00	42.0	—
Architectural Coating	Architectural Coating	11/1/2025	11/30/2025	5.00	20.0	—

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	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	172	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	367	0.40
Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Rail Spurs Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37

Rail Spurs Construction	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Rail Spurs Construction	Excavators	Diesel	Average	1.00	8.00	172	0.38
Rail Spurs Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	280	0.42
Grading	Excavators	Diesel	Average	1.00	8.00	172	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Building/Vertical Construction	Cranes	Diesel	Average	5.00	7.00	367	0.29
Building/Vertical Construction	Forklifts	Diesel	Average	8.00	8.00	82.0	0.20
Building/Vertical Construction	Generator Sets	Diesel	Average	6.00	8.00	14.0	0.74
Building/Vertical Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building/Vertical Construction	Welders	Diesel	Average	20.0	8.00	46.0	0.45
Utility Line Stringing	Cranes	Diesel	Average	1.00	7.00	367	0.29
Utility Line Stringing	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Utility Line Stringing	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Utility Line Stringing	Aerial Lifts	Diesel	Average	2.00	8.00	46.0	0.31
Utility Line Stringing	Other Construction Equipment	Diesel	Average	2.00	8.00	270	0.42
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	18.0	50.2	LDA,LDT1,LDT2
Demolition	Vendor	4.00	35.0	HHDT,MHDT
Demolition	Hauling	2.00	35.0	HHDT
Demolition	Onsite truck	6.00	0.25	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	50.2	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	35.0	HHDT,MHDT
Site Preparation	Hauling	0.00	35.0	HHDT
Site Preparation	Onsite truck	4.00	0.25	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	50.2	LDA,LDT1,LDT2
Grading	Vendor	4.00	35.0	HHDT,MHDT
Grading	Hauling	166	35.0	HHDT
Grading	Onsite truck	170	0.25	HHDT
Building/Vertical Construction	—	—	—	—
Building/Vertical Construction	Worker	108	50.2	LDA,LDT1,LDT2
Building/Vertical Construction	Vendor	42.0	35.0	HHDT,MHDT
Building/Vertical Construction	Hauling	0.00	35.0	HHDT
Building/Vertical Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	50.2	LDA,LDT1,LDT2
Paving	Vendor	4.00	35.0	HHDT,MHDT
Paving	Hauling	0.00	35.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	44.0	50.2	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	35.0	HHDT,MHDT
Architectural Coating	Hauling	0.00	35.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Rail Spurs Construction	—	—	—	—
Rail Spurs Construction	Worker	10.0	50.2	LDA,LDT1,LDT2
Rail Spurs Construction	Vendor	4.00	35.0	HHDT,MHDT
Rail Spurs Construction	Hauling	0.00	35.0	HHDT
Rail Spurs Construction	Onsite truck	4.00	0.25	HHDT
Utility Line Stringing	—	—	—	—
Utility Line Stringing	Worker	24.0	50.2	LDA,LDT1,LDT2
Utility Line Stringing	Vendor	4.00	35.0	HHDT,MHDT
Utility Line Stringing	Hauling	0.00	35.0	HHDT
Utility Line Stringing	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	67%	67%

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	0.00	0.00	384,330	128,110	52,272

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	6,000	—
Site Preparation	—	—	16.5	0.00	—
Rail Spurs Construction	—	—	43.5	0.00	—
Grading	—	114,675	45.0	0.00	—
Paving	0.00	0.00	0.00	0.00	20.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	5.00	100%
Other Non-Asphalt Surfaces	15.0	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	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
Manufacturing	102	102	102	37,230	5,120	5,120	5,120	1,868,946
Parking Lot	6.00	6.00	6.00	2,190	210	210	210	76,650
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	384,330	128,110	52,272

5.10.3. Landscape Equipment

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

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)
Manufacturing	94,807,680	204	0.0330	0.0040	0.00

Parking Lot	0.00	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	25,000,000	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	1,845	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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
Rough Terrain Forklifts	Diesel	Average	1.00	24.0	96.0	0.40
Tractors/Loaders/Backhoes	Diesel	Average	1.00	24.0	84.0	0.37
Rubber Tired Loaders	Diesel	Average	1.00	24.0	150	0.36
Other Construction Equipment	Diesel	Average	1.00	4.00	200	0.42

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.0	annual days of extreme heat
Extreme Precipitation	5.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	12.5	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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

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	74.1
AQ-PM	43.5
AQ-DPM	1.19
Drinking Water	76.4
Lead Risk Housing	5.56
Pesticides	5.90
Toxic Releases	14.6
Traffic	5.30
Effect Indicators	—
CleanUp Sites	46.1
Groundwater	48.5
Haz Waste Facilities/Generators	26.7
Impaired Water Bodies	72.2
Solid Waste	87.1
Sensitive Population	—
Asthma	71.7
Cardio-vascular	60.1
Low Birth Weights	43.5

Socioeconomic Factor Indicators	—
Education	51.5
Housing	19.4
Linguistic	9.46
Poverty	38.3
Unemployment	64.5

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	79.5072501
Employed	0.808417811
Median HI	46.37495188
Education	—
Bachelor's or higher	25.15077634
High school enrollment	100
Preschool enrollment	73.56602079
Transportation	—
Auto Access	75.69613756
Active commuting	1.039394328
Social	—
2-parent households	22.08392147
Voting	74.42576671
Neighborhood	—
Alcohol availability	97.0101373
Park access	17.24624663
Retail density	0.192480431

Supermarket access	15.01347363
Tree canopy	88.64365456
Housing	—
Homeownership	89.43924034
Housing habitability	80.61080457
Low-inc homeowner severe housing cost burden	18.74759399
Low-inc renter severe housing cost burden	86.23123316
Uncrowded housing	70.98678301
Health Outcomes	—
Insured adults	65.30219428
Arthritis	0.0
Asthma ER Admissions	49.2
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	18.6
Cognitively Disabled	19.2
Physically Disabled	9.6
Heart Attack ER Admissions	18.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	64.2
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	8.7
SLR Inundation Area	0.0
Children	91.6
Elderly	15.1
English Speaking	89.1
Foreign-born	4.8
Outdoor Workers	66.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	98.7
Traffic Density	5.5
Traffic Access	0.0
Other Indices	—
Hardship	57.6
Other Decision Support	—
2016 Voting	85.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	44.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on applicant provided information.
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information. Increased excavators hp to 172. Other construction equipment at 280 hp represents a rail tamper. Other construction equipment at 270 hp represents tensioners.
Operations: Solid Waste	Includes solid waste from ash.
Construction: Dust From Material Movement	From grading plan.
Construction: Trips and VMT	Applicant provided trip lengths. Rounded trips up to nearest even integer. Added vendor trucks.
Operations: Water and Waste Water	Based on applicant provided information.
Operations: Off-Road Equipment	Equipment in log storage area, fuel storage area, and dryer furnace area. Other construction equipment represents a trackmobile. Assumed to operate 48 weeks per year.
Operations: Fleet Mix	Fleet mix based on trips during operations. Manufacturing land use accounts for workers. Parking lot land use includes ash removal trucks 0and vendor trucks.
Operations: Energy Use	Electricity provided by project applicant. No natural gas.
Operations: Vehicle Data	Trip rate back-calculated from daily trips.

GSNR Tuolumne Feedstock - Portion of Trucks Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GSNR Tuolumne Feedstock - Portion of Trucks
Construction Start Date	1/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	Statewide
Windspeed (m/s)	3.10
Precipitation (days)	46.4
Location	37.84009839941925, -120.50566854244764
County	Tuolumne
City	Unincorporated
Air District	Tuolumne County APCD
Air Basin	Mountain Counties
TAZ	3034
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

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
Manufacturing	256	1000sqft	5.88	256,220	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.04	0.76	49.9	12.5	0.30	0.87	12.2	13.1	0.87	3.34	4.21	—	45,085	45,085	1.55	7.02	111	47,328
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.01	0.74	52.7	12.6	0.30	0.87	12.2	13.1	0.87	3.34	4.21	—	45,093	45,093	1.55	7.02	2.90	47,228
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.09	0.40	28.0	6.71	0.16	0.47	6.38	6.85	0.47	1.75	2.22	—	24,172	24,172	0.83	3.76	25.8	25,341
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.20	0.07	5.12	1.22	0.03	0.09	1.17	1.25	0.09	0.32	0.40	—	4,002	4,002	0.14	0.62	4.27	4,195

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.04	0.76	49.9	12.5	0.30	0.87	12.2	13.1	0.87	3.34	4.21	—	45,085	45,085	1.55	7.02	111	47,328

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.01	0.74	52.7	12.6	0.30	0.87	12.2	13.1	0.87	3.34	4.21	—	45,093	45,093	1.55	7.02	2.90	47,228
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.09	0.40	28.0	6.71	0.16	0.47	6.38	6.85	0.47	1.75	2.22	—	24,172	24,172	0.83	3.76	25.8	25,341
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.20	0.07	5.12	1.22	0.03	0.09	1.17	1.25	0.09	0.32	0.40	—	4,002	4,002	0.14	0.62	4.27	4,195

3. Construction Emissions Details

3.1. Harvest Residuals (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	1.36	0.51	33.4	8.36	0.20	0.58	8.16	8.74	0.58	2.23	2.82	—	30,184	30,184	1.04	4.70	74.6	31,686
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	1.35	0.49	35.3	8.41	0.20	0.58	8.16	8.74	0.58	2.23	2.82	—	30,190	30,190	1.04	4.70	1.94	31,618
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.72	0.27	18.6	4.45	0.10	0.31	4.24	4.55	0.31	1.16	1.47	—	16,044	16,044	0.55	2.50	17.1	16,820
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.13	0.05	3.40	0.81	0.02	0.06	0.77	0.83	0.06	0.21	0.27	—	2,656	2,656	0.09	0.41	2.83	2,785

3.3. GSNR Biomass Only Thinning Projects (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.62	0.23	15.2	3.81	0.09	0.27	3.72	3.98	0.27	1.02	1.28	—	13,755	13,755	0.47	2.14	34.0	14,439
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.61	0.22	16.1	3.83	0.09	0.27	3.72	3.98	0.27	1.02	1.28	—	13,757	13,757	0.47	2.14	0.88	14,408
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.33	0.12	8.48	2.03	0.05	0.14	1.93	2.07	0.14	0.53	0.67	—	7,311	7,311	0.25	1.14	7.80	7,665
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.06	0.02	1.55	0.37	0.01	0.03	0.35	0.38	0.03	0.10	0.12	—	1,210	1,210	0.04	0.19	1.29	1,269

3.5. Mill Residuals (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.05	0.02	1.27	0.32	0.01	0.02	0.31	0.33	0.02	0.08	0.11	—	1,146	1,146	0.04	0.18	2.83	1,203
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.05	0.02	1.34	0.32	0.01	0.02	0.31	0.33	0.02	0.08	0.11	—	1,146	1,146	0.04	0.18	0.07	1,201
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.04	0.01	0.95	0.23	0.01	0.02	0.22	0.23	0.02	0.06	0.07	—	817	817	0.03	0.13	0.87	856
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	135	135	< 0.005	0.02	0.14	142

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Harvest Residuals	Site Preparation	4/4/2025	12/31/2025	5.00	194	—
GSNR Biomass Only Thinning Projects	Site Preparation	4/4/2025	12/31/2025	5.00	194	—
Mill Residuals	Site Preparation	1/1/2025	12/30/2025	5.00	260	—

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

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Harvest Residuals	—	—	—	—
Harvest Residuals	Worker	0.00	0.00	LDA,LDT1,LDT2
Harvest Residuals	Vendor	0.00	0.00	HHDT,MHDT
Harvest Residuals	Hauling	158	55.7	HHDT
Harvest Residuals	Onsite truck	0.00	0.00	HHDT
GSNR Biomass Only Thinning Projects	—	—	—	—
GSNR Biomass Only Thinning Projects	Worker	0.00	0.00	LDA,LDT1,LDT2
GSNR Biomass Only Thinning Projects	Vendor	0.00	0.00	HHDT,MHDT

GSNR Biomass Only Thinning Projects	Hauling	72.0	55.7	HHDT
GSNR Biomass Only Thinning Projects	Onsite truck	0.00	0.00	HHDT
Mill Residuals	—	—	—	—
Mill Residuals	Worker	0.00	0.00	LDA,LDT1,LDT2
Mill Residuals	Vendor	0.00	0.00	HHDT,MHDT
Mill Residuals	Hauling	6.00	55.7	HHDT
Mill Residuals	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Limit vehicle speeds on unpaved roads to 25 mph	67%	67%

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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Harvest Residuals	—	—	0.00	0.00	—
GSNR Biomass Only Thinning Projects	—	—	0.00	0.00	—
Mill Residuals	—	—	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	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
2025	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.0	annual days of extreme heat
Extreme Precipitation	5.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	12.5	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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

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	74.1
AQ-PM	43.5
AQ-DPM	1.19
Drinking Water	76.4
Lead Risk Housing	5.56
Pesticides	5.90
Toxic Releases	14.6
Traffic	5.30
Effect Indicators	—
CleanUp Sites	46.1
Groundwater	48.5
Haz Waste Facilities/Generators	26.7
Impaired Water Bodies	72.2
Solid Waste	87.1
Sensitive Population	—
Asthma	71.7
Cardio-vascular	60.1
Low Birth Weights	43.5
Socioeconomic Factor Indicators	—
Education	51.5
Housing	19.4
Linguistic	9.46
Poverty	38.3
Unemployment	64.5

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	79.5072501
Employed	0.808417811
Median HI	46.37495188
Education	—
Bachelor's or higher	25.15077634
High school enrollment	100
Preschool enrollment	73.56602079
Transportation	—
Auto Access	75.69613756
Active commuting	1.039394328
Social	—
2-parent households	22.08392147
Voting	74.42576671
Neighborhood	—
Alcohol availability	97.0101373
Park access	17.24624663
Retail density	0.192480431
Supermarket access	15.01347363
Tree canopy	88.64365456
Housing	—
Homeownership	89.43924034
Housing habitability	80.61080457
Low-inc homeowner severe housing cost burden	18.74759399
Low-inc renter severe housing cost burden	86.23123316

Uncrowded housing	70.98678301
Health Outcomes	—
Insured adults	65.30219428
Arthritis	0.0
Asthma ER Admissions	49.2
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	18.6
Cognitively Disabled	19.2
Physically Disabled	9.6
Heart Attack ER Admissions	18.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	64.2
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	8.7
SLR Inundation Area	0.0

Children	91.6
Elderly	15.1
English Speaking	89.1
Foreign-born	4.8
Outdoor Workers	66.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	98.7
Traffic Density	5.5
Traffic Access	0.0
Other Indices	—
Hardship	57.6
Other Decision Support	—
2016 Voting	85.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	44.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on applicant provided information.
Construction: Construction Phases	Concurrent feedstock operations.
Construction: Off-Road Equipment	No equipment.
Construction: Trips and VMT	Project-specific information for HRA.
Construction: On-Road Fugitive Dust	account for unpaved roads
Construction: Dust From Material Movement	No earthwork.
Characteristics: Project Details	Statewide analysis -- feedstock acquisition takes place in multiple jurisdictions.

GSNR Tuolumne Feedstock Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	GSNR Tuolumne Feedstock
Construction Start Date	1/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	Statewide
Windspeed (m/s)	3.10
Precipitation (days)	46.4
Location	37.84009839941925, -120.50566854244764
County	Tuolumne
City	Unincorporated
Air District	Tuolumne County APCD
Air Basin	Mountain Counties
TAZ	3034
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

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
Manufacturing	256	1000sqft	5.88	256,220	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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.	32.7	26.3	416	221	1.04	10.5	458	468	9.74	73.4	83.2	—	134,201	134,201	5.04	9.36	164	137,279
Mit.	12.8	10.6	267	391	1.04	3.92	458	462	3.85	73.4	77.3	—	134,201	134,201	5.04	9.36	164	137,279
% Reduced	61%	60%	36%	-77%	—	63%	—	1%	61%	—	7%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.7	26.2	420	214	1.04	10.5	458	468	9.74	73.4	83.2	—	133,760	133,760	5.04	9.36	4.26	136,680
Mit.	12.7	10.5	271	384	1.04	3.92	458	462	3.85	73.4	77.3	—	133,760	133,760	5.04	9.36	4.26	136,680
% Reduced	61%	60%	36%	-79%	—	63%	—	1%	61%	—	7%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.4	14.0	223	115	0.56	5.59	219	225	5.18	36.6	41.8	—	71,411	71,411	2.69	5.02	37.9	73,011
Mit.	6.80	5.59	144	205	0.56	2.09	219	221	2.05	36.6	38.6	—	71,411	71,411	2.69	5.02	37.9	73,011
% Reduced	61%	60%	36%	-79%	—	63%	—	2%	60%	—	8%	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.17	2.55	40.7	20.9	0.10	1.02	40.0	41.0	0.95	6.67	7.62	—	11,823	11,823	0.45	0.83	6.28	12,088
Mit.	1.24	1.02	26.3	37.4	0.10	0.38	40.0	40.3	0.37	6.67	7.05	—	11,823	11,823	0.45	0.83	6.28	12,088
% Reduced	61%	60%	36%	-79%	—	63%	—	2%	60%	—	8%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	32.7	26.3	416	221	1.04	10.5	458	468	9.74	73.4	83.2	—	134,201	134,201	5.04	9.36	164	137,279
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	32.7	26.2	420	214	1.04	10.5	458	468	9.74	73.4	83.2	—	133,760	133,760	5.04	9.36	4.26	136,680
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	17.4	14.0	223	115	0.56	5.59	219	225	5.18	36.6	41.8	—	71,411	71,411	2.69	5.02	37.9	73,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.17	2.55	40.7	20.9	0.10	1.02	40.0	41.0	0.95	6.67	7.62	—	11,823	11,823	0.45	0.83	6.28	12,088

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	12.8	10.6	267	391	1.04	3.92	458	462	3.85	73.4	77.3	—	134,201	134,201	5.04	9.36	164	137,279

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	12.7	10.5	271	384	1.04	3.92	458	462	3.85	73.4	77.3	—	133,760	133,760	5.04	9.36	4.26	136,680
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	6.80	5.59	144	205	0.56	2.09	219	221	2.05	36.6	38.6	—	71,411	71,411	2.69	5.02	37.9	73,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.24	1.02	26.3	37.4	0.10	0.38	40.0	40.3	0.37	6.67	7.05	—	11,823	11,823	0.45	0.83	6.28	12,088

3. Construction Emissions Details

3.1. Harvest Residuals (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.38	6.20	98.8	48.3	0.22	2.14	—	2.14	1.97	—	1.97	—	23,521	23,521	0.95	0.19	—	23,602
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.27	0.14	4.19	2.15	0.01	0.03	253	253	0.03	25.3	25.4	—	2,053	2,053	0.13	0.32	4.42	2,156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	7.38	6.20	98.8	48.3	0.22	2.14	—	2.14	1.97	—	1.97	—	23,521	23,521	0.95	0.19	—	23,602
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.25	0.13	4.43	2.21	0.01	0.03	253	253	0.03	25.3	25.4	—	2,059	2,059	0.12	0.32	0.11	2,157
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.92	3.29	52.5	25.7	0.12	1.14	—	1.14	1.05	—	1.05	—	12,502	12,502	0.51	0.10	—	12,545
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.14	0.07	2.31	1.16	0.01	0.02	118	118	0.02	11.7	11.8	—	1,092	1,092	0.07	0.17	1.01	1,146
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.60	9.58	4.68	0.02	0.21	—	0.21	0.19	—	0.19	—	2,070	2,070	0.08	0.02	—	2,077
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.03	0.01	0.42	0.21	< 0.005	< 0.005	21.5	21.5	< 0.005	2.14	2.15	—	181	181	0.01	0.03	0.17	190
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.80	0.66	1.24	21.0	0.00	0.00	4.11	4.11	0.00	0.96	0.96	—	4,372	4,372	0.15	0.14	16.8	4,433

Vendor	0.28	0.12	6.45	1.92	0.05	0.10	1.87	1.97	0.10	0.52	0.61	—	6,765	6,765	0.16	0.99	19.0	7,083
Hauling	1.29	0.48	31.6	7.96	0.19	0.55	7.67	8.22	0.55	2.10	2.65	—	28,412	28,412	0.98	4.43	70.2	29,826
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.77	0.63	1.50	16.0	0.00	0.00	4.11	4.11	0.00	0.96	0.96	—	4,051	4,051	0.15	0.14	0.44	4,097
Vendor	0.28	0.12	6.81	1.94	0.05	0.10	1.87	1.97	0.10	0.52	0.61	—	6,766	6,766	0.16	0.99	0.49	7,065
Hauling	1.28	0.47	33.3	8.02	0.19	0.55	7.67	8.22	0.55	2.10	2.65	—	28,418	28,418	0.98	4.43	1.82	29,763
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.33	0.73	9.00	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,189	2,189	0.08	0.07	3.85	2,217
Vendor	0.15	0.06	3.59	1.03	0.03	0.05	0.97	1.02	0.05	0.27	0.32	—	3,596	3,596	0.08	0.53	4.37	3,759
Hauling	0.68	0.25	17.6	4.25	0.10	0.29	3.99	4.28	0.29	1.09	1.38	—	15,103	15,103	0.52	2.35	16.1	15,833
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.13	1.64	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	362	362	0.01	0.01	0.64	367
Vendor	0.03	0.01	0.66	0.19	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	595	595	0.01	0.09	0.72	622
Hauling	0.12	0.05	3.21	0.77	0.02	0.05	0.73	0.78	0.05	0.20	0.25	—	2,500	2,500	0.09	0.39	2.66	2,621

3.2. Harvest Residuals (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.23	2.23	66.5	116	0.22	0.72	—	0.72	0.72	—	0.72	—	23,521	23,521	0.95	0.19	—	23,602

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.27	0.14	4.19	2.15	0.01	0.03	253	253	0.03	25.3	25.4	—	2,053	2,053	0.13	0.32	4.42	2,156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.23	2.23	66.5	116	0.22	0.72	—	0.72	0.72	—	0.72	—	23,521	23,521	0.95	0.19	—	23,602
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.25	0.13	4.43	2.21	0.01	0.03	253	253	0.03	25.3	25.4	—	2,059	2,059	0.12	0.32	0.11	2,157
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.19	1.19	35.3	61.6	0.12	0.38	—	0.38	0.38	—	0.38	—	12,502	12,502	0.51	0.10	—	12,545
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.14	0.07	2.31	1.16	0.01	0.02	118	118	0.02	11.7	11.8	—	1,092	1,092	0.07	0.17	1.01	1,146
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.22	6.45	11.3	0.02	0.07	—	0.07	0.07	—	0.07	—	2,070	2,070	0.08	0.02	—	2,077

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.03	0.01	0.42	0.21	< 0.005	< 0.005	21.5	21.5	< 0.005	2.14	2.15	—	181	181	0.01	0.03	0.17	190
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.80	0.66	1.24	21.0	0.00	0.00	4.11	4.11	0.00	0.96	0.96	—	4,372	4,372	0.15	0.14	16.8	4,433
Vendor	0.28	0.12	6.45	1.92	0.05	0.10	1.87	1.97	0.10	0.52	0.61	—	6,765	6,765	0.16	0.99	19.0	7,083
Hauling	1.29	0.48	31.6	7.96	0.19	0.55	7.67	8.22	0.55	2.10	2.65	—	28,412	28,412	0.98	4.43	70.2	29,826
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.77	0.63	1.50	16.0	0.00	0.00	4.11	4.11	0.00	0.96	0.96	—	4,051	4,051	0.15	0.14	0.44	4,097
Vendor	0.28	0.12	6.81	1.94	0.05	0.10	1.87	1.97	0.10	0.52	0.61	—	6,766	6,766	0.16	0.99	0.49	7,065
Hauling	1.28	0.47	33.3	8.02	0.19	0.55	7.67	8.22	0.55	2.10	2.65	—	28,418	28,418	0.98	4.43	1.82	29,763
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.33	0.73	9.00	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,189	2,189	0.08	0.07	3.85	2,217
Vendor	0.15	0.06	3.59	1.03	0.03	0.05	0.97	1.02	0.05	0.27	0.32	—	3,596	3,596	0.08	0.53	4.37	3,759
Hauling	0.68	0.25	17.6	4.25	0.10	0.29	3.99	4.28	0.29	1.09	1.38	—	15,103	15,103	0.52	2.35	16.1	15,833
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.13	1.64	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	362	362	0.01	0.01	0.64	367
Vendor	0.03	0.01	0.66	0.19	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	595	595	0.01	0.09	0.72	622
Hauling	0.12	0.05	3.21	0.77	0.02	0.05	0.73	0.78	0.05	0.20	0.25	—	2,500	2,500	0.09	0.39	2.66	2,621

3.3. GSNR Biomass Only Thinning Projects (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	21.5	18.0	253	125	0.45	7.34	—	7.34	6.75	—	6.75	—	48,771	48,771	1.98	0.40	—	48,939
Dust From Material Movement	—	—	—	—	—	—	59.0	59.0	—	30.3	30.3	—	—	—	—	—	—	—
Onsite truck	0.12	0.06	1.91	0.98	0.01	0.02	115	115	0.02	11.5	11.6	—	935	935	0.06	0.15	2.01	983
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	21.5	18.0	253	125	0.45	7.34	—	7.34	6.75	—	6.75	—	48,771	48,771	1.98	0.40	—	48,939
Dust From Material Movement	—	—	—	—	—	—	59.0	59.0	—	30.3	30.3	—	—	—	—	—	—	—
Onsite truck	0.11	0.06	2.02	1.01	0.01	0.02	115	115	0.02	11.5	11.6	—	938	938	0.06	0.15	0.05	983
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	11.4	9.59	134	66.4	0.24	3.90	—	3.90	3.59	—	3.59	—	25,922	25,922	1.05	0.21	—	26,011
Dust From Material Movement	—	—	—	—	—	—	31.3	31.3	—	16.1	16.1	—	—	—	—	—	—	—

Onsite truck	0.06	0.03	1.05	0.53	< 0.005	0.01	53.6	53.6	0.01	5.35	5.36	—	498	498	0.03	0.08	0.46	522
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.08	1.75	24.5	12.1	0.04	0.71	—	0.71	0.65	—	0.65	—	4,292	4,292	0.17	0.03	—	4,306
Dust From Material Movement	—	—	—	—	—	—	5.72	5.72	—	2.94	2.94	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.10	< 0.005	< 0.005	9.78	9.78	< 0.005	0.98	0.98	—	82.4	82.4	0.01	0.01	0.08	86.5
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.28	0.53	9.04	0.00	0.00	1.77	1.77	0.00	0.42	0.42	—	1,884	1,884	0.06	0.06	7.24	1,911
Vendor	0.13	0.05	2.90	0.86	0.02	0.04	0.84	0.89	0.04	0.23	0.28	—	3,044	3,044	0.07	0.45	8.53	3,187
Hauling	0.59	0.22	14.4	3.63	0.08	0.25	3.50	3.75	0.25	0.96	1.21	—	12,947	12,947	0.45	2.02	32.0	13,592
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.27	0.65	6.91	0.00	0.00	1.77	1.77	0.00	0.42	0.42	—	1,746	1,746	0.07	0.06	0.19	1,766
Vendor	0.12	0.05	3.07	0.87	0.02	0.04	0.84	0.89	0.04	0.23	0.28	—	3,045	3,045	0.07	0.45	0.22	3,179
Hauling	0.58	0.21	15.2	3.66	0.08	0.25	3.50	3.75	0.25	0.96	1.21	—	12,950	12,950	0.45	2.02	0.83	13,563
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.14	0.31	3.88	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	944	944	0.03	0.03	1.66	956
Vendor	0.07	0.03	1.62	0.46	0.01	0.02	0.44	0.46	0.02	0.12	0.14	—	1,618	1,618	0.04	0.24	1.97	1,692
Hauling	0.31	0.12	8.01	1.94	0.05	0.13	1.82	1.95	0.13	0.50	0.63	—	6,882	6,882	0.24	1.07	7.33	7,215
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.06	0.71	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	156	156	0.01	0.01	0.28	158

Vendor	0.01	0.01	0.29	0.08	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	268	268	0.01	0.04	0.33	280
Hauling	0.06	0.02	1.46	0.35	0.01	0.02	0.33	0.36	0.02	0.09	0.12	—	1,139	1,139	0.04	0.18	1.21	1,195

3.4. GSNR Biomass Only Thinning Projects (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.71	6.29	136	227	0.45	2.18	—	2.18	2.11	—	2.11	—	48,771	48,771	1.98	0.40	—	48,939
Dust From Material Movement	—	—	—	—	—	—	59.0	59.0	—	30.3	30.3	—	—	—	—	—	—	—
Onsite truck	0.12	0.06	1.91	0.98	0.01	0.02	115	115	0.02	11.5	11.6	—	935	935	0.06	0.15	2.01	983
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.71	6.29	136	227	0.45	2.18	—	2.18	2.11	—	2.11	—	48,771	48,771	1.98	0.40	—	48,939
Dust From Material Movement	—	—	—	—	—	—	59.0	59.0	—	30.3	30.3	—	—	—	—	—	—	—
Onsite truck	0.11	0.06	2.02	1.01	0.01	0.02	115	115	0.02	11.5	11.6	—	938	938	0.06	0.15	0.05	983
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.57	3.35	72.1	121	0.24	1.16	—	1.16	1.12	—	1.12	—	25,922	25,922	1.05	0.21	—	26,011
Dust From Material Movement	—	—	—	—	—	—	31.3	31.3	—	16.1	16.1	—	—	—	—	—	—	—
Onsite truck	0.06	0.03	1.05	0.53	< 0.005	0.01	53.6	53.6	0.01	5.35	5.36	—	498	498	0.03	0.08	0.46	522
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.61	13.2	22.0	0.04	0.21	—	0.21	0.20	—	0.20	—	4,292	4,292	0.17	0.03	—	4,306
Dust From Material Movement	—	—	—	—	—	—	5.72	5.72	—	2.94	2.94	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.10	< 0.005	< 0.005	9.78	9.78	< 0.005	0.98	0.98	—	82.4	82.4	0.01	0.01	0.08	86.5
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.28	0.53	9.04	0.00	0.00	1.77	1.77	0.00	0.42	0.42	—	1,884	1,884	0.06	0.06	7.24	1,911
Vendor	0.13	0.05	2.90	0.86	0.02	0.04	0.84	0.89	0.04	0.23	0.28	—	3,044	3,044	0.07	0.45	8.53	3,187
Hauling	0.59	0.22	14.4	3.63	0.08	0.25	3.50	3.75	0.25	0.96	1.21	—	12,947	12,947	0.45	2.02	32.0	13,592
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.27	0.65	6.91	0.00	0.00	1.77	1.77	0.00	0.42	0.42	—	1,746	1,746	0.07	0.06	0.19	1,766
Vendor	0.12	0.05	3.07	0.87	0.02	0.04	0.84	0.89	0.04	0.23	0.28	—	3,045	3,045	0.07	0.45	0.22	3,179
Hauling	0.58	0.21	15.2	3.66	0.08	0.25	3.50	3.75	0.25	0.96	1.21	—	12,950	12,950	0.45	2.02	0.83	13,563
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.14	0.31	3.88	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	944	944	0.03	0.03	1.66	956

Vendor	0.07	0.03	1.62	0.46	0.01	0.02	0.44	0.46	0.02	0.12	0.14	—	1,618	1,618	0.04	0.24	1.97	1,692
Hauling	0.31	0.12	8.01	1.94	0.05	0.13	1.82	1.95	0.13	0.50	0.63	—	6,882	6,882	0.24	1.07	7.33	7,215
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.06	0.71	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	156	156	0.01	0.01	0.28	158
Vendor	0.01	0.01	0.29	0.08	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	268	268	0.01	0.04	0.33	280
Hauling	0.06	0.02	1.46	0.35	0.01	0.02	0.33	0.36	0.02	0.09	0.12	—	1,139	1,139	0.04	0.18	1.21	1,195

3.5. Mill Residuals (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.16	0.08	< 0.005	< 0.005	9.62	9.62	< 0.005	0.96	0.96	—	78.0	78.0	< 0.005	0.01	0.17	81.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	9.62	9.62	< 0.005	0.96	0.96	—	78.2	78.2	< 0.005	0.01	< 0.005	81.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	5.98	5.98	< 0.005	0.60	0.60	—	55.6	55.6	< 0.005	0.01	0.05	58.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	1.09	1.09	< 0.005	0.11	0.11	—	9.20	9.20	< 0.005	< 0.005	0.01	9.66
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	338	338	0.01	0.05	0.95	354
Hauling	0.05	0.02	1.20	0.30	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,079	1,079	0.04	0.17	2.67	1,133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	338	338	0.01	0.05	0.02	353
Hauling	0.05	0.02	1.27	0.30	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,079	1,079	0.04	0.17	0.07	1,130
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	0.24	0.07	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	241	241	0.01	0.04	0.29	252
Hauling	0.03	0.01	0.89	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	769	769	0.03	0.12	0.82	806
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.9	39.9	< 0.005	0.01	0.05	41.7
Hauling	0.01	< 0.005	0.16	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	127	127	< 0.005	0.02	0.14	133

3.6. Mill Residuals (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.16	0.08	< 0.005	< 0.005	9.62	9.62	< 0.005	0.96	0.96	—	78.0	78.0	< 0.005	0.01	0.17	81.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	9.62	9.62	< 0.005	0.96	0.96	—	78.2	78.2	< 0.005	0.01	< 0.005	81.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	5.98	5.98	< 0.005	0.60	0.60	—	55.6	55.6	< 0.005	0.01	0.05	58.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	1.09	1.09	< 0.005	0.11	0.11	—	9.20	9.20	< 0.005	< 0.005	0.01	9.66
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	338	338	0.01	0.05	0.95	354
Hauling	0.05	0.02	1.20	0.30	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,079	1,079	0.04	0.17	2.67	1,133
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	338	338	0.01	0.05	0.02	353
Hauling	0.05	0.02	1.27	0.30	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,079	1,079	0.04	0.17	0.07	1,130
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	0.24	0.07	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	241	241	0.01	0.04	0.29	252
Hauling	0.03	0.01	0.89	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	769	769	0.03	0.12	0.82	806
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.9	39.9	< 0.005	0.01	0.05	41.7
Hauling	0.01	< 0.005	0.16	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	127	127	< 0.005	0.02	0.14	133

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Harvest Residuals	Site Preparation	4/4/2025	12/31/2025	5.00	194	—
GSNR Biomass Only Thinning Projects	Site Preparation	4/4/2025	12/31/2025	5.00	194	—
Mill Residuals	Site Preparation	1/1/2025	12/30/2025	5.00	260	—

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
Harvest Residuals	Tractors/Loaders/Backhoes	Diesel	Average	10.0	10.0	207	0.37
Harvest Residuals	Other Construction Equipment	Diesel	Average	3.00	10.0	998	0.42

GSNR Biomass Only Thinning Projects	Rubber Tired Dozers	Diesel	Average	9.00	8.00	219	0.40
GSNR Biomass Only Thinning Projects	Tractors/Loaders/Back hoes	Diesel	Average	5.00	10.0	207	0.37
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Average	9.00	10.0	286	0.42
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Average	5.00	10.0	998	0.42

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Harvest Residuals	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	10.0	10.0	207	0.37
Harvest Residuals	Other Construction Equipment	Diesel	Tier 4 Final	3.00	10.0	998	0.42
GSNR Biomass Only Thinning Projects	Rubber Tired Dozers	Diesel	Tier 4 Final	9.00	8.00	219	0.40
GSNR Biomass Only Thinning Projects	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	5.00	10.0	207	0.37
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Average	4.00	10.0	286	0.42
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Tier 4 Final	5.00	10.0	286	0.42
GSNR Biomass Only Thinning Projects	Other Construction Equipment	Diesel	Tier 4 Final	5.00	10.0	998	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Harvest Residuals	—	—	—	—
Harvest Residuals	Worker	116	50.2	LDA,LDT1,LDT2

Harvest Residuals	Vendor	40.0	55.7	HHDT,MHDT
Harvest Residuals	Hauling	158	52.4	HHDT
Harvest Residuals	Onsite truck	158	3.30	HHDT
GSNR Biomass Only Thinning Projects	—	—	—	—
GSNR Biomass Only Thinning Projects	Worker	50.0	50.2	LDA,LDT1,LDT2
GSNR Biomass Only Thinning Projects	Vendor	18.0	55.7	HHDT,MHDT
GSNR Biomass Only Thinning Projects	Hauling	72.0	52.4	HHDT
GSNR Biomass Only Thinning Projects	Onsite truck	72.0	3.30	HHDT
Mill Residuals	—	—	—	—
Mill Residuals	Worker	0.00	50.2	LDA,LDT1,LDT2
Mill Residuals	Vendor	2.00	55.7	HHDT,MHDT
Mill Residuals	Hauling	6.00	52.4	HHDT
Mill Residuals	Onsite truck	6.00	3.30	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Harvest Residuals	—	—	—	—
Harvest Residuals	Worker	116	50.2	LDA,LDT1,LDT2
Harvest Residuals	Vendor	40.0	55.7	HHDT,MHDT
Harvest Residuals	Hauling	158	52.4	HHDT
Harvest Residuals	Onsite truck	158	3.30	HHDT
GSNR Biomass Only Thinning Projects	—	—	—	—
GSNR Biomass Only Thinning Projects	Worker	50.0	50.2	LDA,LDT1,LDT2

GSNR Biomass Only Thinning Projects	Vendor	18.0	55.7	HHDT,MHDT
GSNR Biomass Only Thinning Projects	Hauling	72.0	52.4	HHDT
GSNR Biomass Only Thinning Projects	Onsite truck	72.0	3.30	HHDT
Mill Residuals	—	—	—	—
Mill Residuals	Worker	0.00	50.2	LDA,LDT1,LDT2
Mill Residuals	Vendor	2.00	55.7	HHDT,MHDT
Mill Residuals	Hauling	6.00	52.4	HHDT
Mill Residuals	Onsite truck	6.00	3.30	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Limit vehicle speeds on unpaved roads to 25 mph	67%	67%

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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Harvest Residuals	—	—	0.00	0.00	—
GSNR Biomass Only Thinning Projects	—	—	0.00	0.00	—

Mill Residuals	—	—	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	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
2025	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.0	annual days of extreme heat
Extreme Precipitation	5.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	12.5	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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

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	74.1
AQ-PM	43.5
AQ-DPM	1.19
Drinking Water	76.4
Lead Risk Housing	5.56
Pesticides	5.90
Toxic Releases	14.6
Traffic	5.30
Effect Indicators	—
CleanUp Sites	46.1
Groundwater	48.5
Haz Waste Facilities/Generators	26.7
Impaired Water Bodies	72.2
Solid Waste	87.1
Sensitive Population	—
Asthma	71.7

Cardio-vascular	60.1
Low Birth Weights	43.5
Socioeconomic Factor Indicators	—
Education	51.5
Housing	19.4
Linguistic	9.46
Poverty	38.3
Unemployment	64.5

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	79.5072501
Employed	0.808417811
Median HI	46.37495188
Education	—
Bachelor's or higher	25.15077634
High school enrollment	100
Preschool enrollment	73.56602079
Transportation	—
Auto Access	75.69613756
Active commuting	1.039394328
Social	—
2-parent households	22.08392147
Voting	74.42576671
Neighborhood	—
Alcohol availability	97.0101373

Park access	17.24624663
Retail density	0.192480431
Supermarket access	15.01347363
Tree canopy	88.64365456
Housing	—
Homeownership	89.43924034
Housing habitability	80.61080457
Low-inc homeowner severe housing cost burden	18.74759399
Low-inc renter severe housing cost burden	86.23123316
Uncrowded housing	70.98678301
Health Outcomes	—
Insured adults	65.30219428
Arthritis	0.0
Asthma ER Admissions	49.2
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	18.6
Cognitively Disabled	19.2
Physically Disabled	9.6
Heart Attack ER Admissions	18.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	64.2

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	8.7
SLR Inundation Area	0.0
Children	91.6
Elderly	15.1
English Speaking	89.1
Foreign-born	4.8
Outdoor Workers	66.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	98.7
Traffic Density	5.5
Traffic Access	0.0
Other Indices	—
Hardship	57.6
Other Decision Support	—
2016 Voting	85.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	44.0
Healthy Places Index Score for Project Location (b)	38.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on applicant provided information.
Construction: Construction Phases	Concurrent feedstock operations.
Construction: Off-Road Equipment	Based on applicant provided information. Tractors/Loaders/Backhoes (207 HP) = Loader (Heel Boom) Rubber Tired Dozers (219 HP) = Rubber Tired Skidders Other Construction Equipment (286 HP) = Feller Bunchers Other Construction Equipment (998 HP) = Chippers
Construction: Trips and VMT	Based on applicant provided information. Trips rounded up to nearest even whole number. On-site trucks account for unpaved travel during feedstock acquisition.
Construction: On-Road Fugitive Dust	account for unpaved roads
Construction: Dust From Material Movement	No earthwork.
Characteristics: Project Details	Statewide analysis because feedstock acquisition would take place in multiple jurisdictions.

Port of Stockton - Mitigated Operation Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Port of Stockton - Mitigated Operation
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	0.40
Location	37.95080961249015, -121.35505649153723
County	San Joaquin
City	Stockton
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2133
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Heavy Industry	71.9	1000sqft	15.8	71,870	0.00	—	—	—
Parking Lot	1.00	Acre	1.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.99	1.98	1.81	17.8	0.03	0.06	0.21	0.27	0.06	0.05	0.12	79.9	16,984	17,064	10.4	0.40	19.8	17,463
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.98	1.97	1.84	17.7	0.03	0.06	0.21	0.27	0.06	0.05	0.12	79.9	16,968	17,048	10.4	0.40	18.7	17,447
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.77	1.76	0.72	5.30	0.01	0.02	0.21	0.23	0.02	0.05	0.07	79.9	14,716	14,796	10.3	0.38	19.2	15,187
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.32	0.32	0.13	0.97	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	13.2	2,436	2,450	1.70	0.06	3.18	2,514

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	0.06	0.05	0.29	0.75	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	367	367	0.01	0.03	1.09	378

Area	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,480	13,480	2.18	0.26	—	13,613
Water	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Waste	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Off-Road	0.29	0.29	1.53	17.1	0.03	0.06	—	0.06	0.06	—	0.06	—	3,108	3,108	0.13	0.03	—	3,118
Total	1.99	1.98	1.81	17.8	0.03	0.06	0.21	0.27	0.06	0.05	0.12	79.9	16,984	17,064	10.4	0.40	19.8	17,463
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.05	0.31	0.60	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	351	351	0.01	0.04	0.03	362
Area	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,480	13,480	2.18	0.26	—	13,613
Water	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Waste	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Off-Road	0.29	0.29	1.53	17.1	0.03	0.06	—	0.06	0.06	—	0.06	—	3,108	3,108	0.13	0.03	—	3,118
Total	1.98	1.97	1.84	17.7	0.03	0.06	0.21	0.27	0.06	0.05	0.12	79.9	16,968	17,048	10.4	0.40	18.7	17,447
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.05	0.30	0.62	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	355	355	0.01	0.04	0.47	366
Area	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,480	13,480	2.18	0.26	—	13,613
Water	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Waste	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Off-Road	0.08	0.08	0.42	4.68	0.01	0.02	—	0.02	0.02	—	0.02	—	851	851	0.03	0.01	—	854
Total	1.77	1.76	0.72	5.30	0.01	0.02	0.21	0.23	0.02	0.05	0.07	79.9	14,716	14,796	10.3	0.38	19.2	15,187

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.06	0.11	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	58.7	58.7	< 0.005	0.01	0.08	60.6
Area	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,232	2,232	0.36	0.04	—	2,254
Water	—	—	—	—	—	—	—	—	—	—	—	5.27	5.01	10.3	0.54	0.01	—	27.7
Waste	—	—	—	—	—	—	—	—	—	—	—	7.95	0.00	7.95	0.79	0.00	—	27.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Off-Road	0.01	0.01	0.08	0.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	141	141	0.01	< 0.005	—	141
Total	0.32	0.32	0.13	0.97	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	13.2	2,436	2,450	1.70	0.06	3.18	2,514

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.05	0.05	0.04	0.69	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.04	—	170	170	< 0.005	< 0.005	0.62	172
Parking Lot	0.01	< 0.005	0.25	0.07	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	197	197	< 0.005	0.03	0.47	207
Total	0.06	0.05	0.29	0.75	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	367	367	0.01	0.03	1.09	378
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Heavy Industry	0.05	0.04	0.04	0.53	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.04	—	154	154	< 0.005	< 0.005	0.02	155
Parking Lot	0.01	< 0.005	0.27	0.07	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	197	197	< 0.005	0.03	0.01	206
Total	0.06	0.05	0.31	0.60	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	351	351	0.01	0.04	0.03	362
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.01	0.01	0.01	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	26.1	26.1	< 0.005	< 0.005	0.04	26.4
Parking Lot	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.6	32.6	< 0.005	0.01	0.03	34.2
Total	0.01	0.01	0.06	0.11	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	58.7	58.7	< 0.005	0.01	0.08	60.6

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	13,480	13,480	2.18	0.26	—	13,613
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,480	13,480	2.18	0.26	—	13,613
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	13,480	13,480	2.18	0.26	—	13,613
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,480	13,480	2.18	0.26	—	13,613
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	2,232	2,232	0.36	0.04	—	2,254
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,232	2,232	0.36	0.04	—	2,254

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.54	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.54	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.28	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	5.27	5.01	10.3	0.54	0.01	—	27.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.27	5.01	10.3	0.54	0.01	—	27.7

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	7.95	0.00	7.95	0.79	0.00	—	27.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.95	0.00	7.95	0.79	0.00	—	27.8

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874
Rough Terrain Forklifts	0.21	0.21	1.10	11.0	0.02	0.04	—	0.04	0.04	—	0.04	—	2,236	2,236	0.09	0.02	—	2,244
Total	0.29	0.29	1.53	17.1	0.03	0.06	—	0.06	0.06	—	0.06	—	3,108	3,108	0.13	0.03	—	3,118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.08	0.08	0.43	6.08	0.01	0.02	—	0.02	0.02	—	0.02	—	871	871	0.04	0.01	—	874
Rough Terrain Forklifts	0.21	0.21	1.10	11.0	0.02	0.04	—	0.04	0.04	—	0.04	—	2,236	2,236	0.09	0.02	—	2,244
Total	0.29	0.29	1.53	17.1	0.03	0.06	—	0.06	0.06	—	0.06	—	3,108	3,108	0.13	0.03	—	3,118
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	< 0.005	< 0.005	0.02	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.5	39.5	< 0.005	< 0.005	—	39.7

Rough Terrain Forklifts	0.01	0.01	0.06	0.55	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	101	101	< 0.005	< 0.005	—	102
Total	0.01	0.01	0.08	0.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	141	141	0.01	< 0.005	—	141

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Heavy Industry	16.0	16.0	16.0	5,840	222	222	222	81,200
Parking Lot	4.00	4.00	4.00	1,460	55.6	55.6	55.6	20,300

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	107,805	35,935	2,614

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	24,120,000	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	16,619,938	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

General Heavy Industry	89.1	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	24.0	84.0	0.37
Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	24.0	200	0.40

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	23.2	annual days of extreme heat
Extreme Precipitation	2.40	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.10	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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

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	48.6
AQ-PM	46.2
AQ-DPM	25.0
Drinking Water	93.7
Lead Risk Housing	56.2
Pesticides	92.2
Toxic Releases	34.5
Traffic	7.53
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	98.7

Haz Waste Facilities/Generators	72.6
Impaired Water Bodies	99.0
Solid Waste	63.7
Sensitive Population	—
Asthma	65.2
Cardio-vascular	48.2
Low Birth Weights	93.1
Socioeconomic Factor Indicators	—
Education	87.9
Housing	—
Linguistic	75.8
Poverty	88.6
Unemployment	—

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	19.45335558
Employed	55.33170794
Median HI	19.26087514
Education	—
Bachelor's or higher	18.02900038
High school enrollment	100
Preschool enrollment	69.84473245
Transportation	—
Auto Access	74.57975106
Active commuting	60.6698319

Social	—
2-parent households	85.48697549
Voting	74.16912614
Neighborhood	—
Alcohol availability	97.0101373
Park access	4.812010779
Retail density	0.115488259
Supermarket access	10.30411908
Tree canopy	60.24637495
Housing	—
Homeownership	30.01411523
Housing habitability	66.81637367
Low-inc homeowner severe housing cost burden	96.94597716
Low-inc renter severe housing cost burden	97.62607468
Uncrowded housing	30.36058001
Health Outcomes	—
Insured adults	11.85679456
Arthritis	0.0
Asthma ER Admissions	15.2
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	15.5
Cognitively Disabled	15.9
Physically Disabled	41.1

Heart Attack ER Admissions	27.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	88.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	96.8
Elderly	20.7
English Speaking	7.7
Foreign-born	56.2
Outdoor Workers	0.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	99.5
Traffic Density	4.4
Traffic Access	0.0
Other Indices	—
Hardship	67.6
Other Decision Support	—
2016 Voting	46.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	93.0
Healthy Places Index Score for Project Location (b)	41.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on data from applicant. Parking lot included for fleet mix purposes.
Construction: Construction Phases	Applicant provided information.
Construction: Off-Road Equipment	Based on data from applicant. Other construction equipment represents a rail tamper.
Construction: Trips and VMT	Rounded up to nearest even integer. Added in vendor trucks.
Operations: Energy Use	Electricity provided by applicant. No natural gas to be used at facility. No parking lot.
Operations: Off-Road Equipment	Forklifts represent yard trucks. Equipment operating 24 hours per day and 2400 hour per year.
Operations: Fleet Mix	Fleet mix based on trips during operations.
Construction: Paving	no parking lot, only for trip purposes

Construction: Architectural Coatings	No parking area.
Operations: Vehicle Data	Trip rates back-calculated from daily trips.
Operations: Consumer Products	no parking lot.

Port of Stockton - Unmitigated Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Port of Stockton - Unmitigated
Construction Start Date	10/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	0.40
Location	37.95080961249015, -121.35505649153723
County	San Joaquin
City	Stockton
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2133
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Heavy Industry	71.9	1000sqft	15.8	71,870	0.00	—	—	—

Parking Lot	1.00	Acre	1.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.6	9.69	82.8	88.5	0.18	3.16	2.18	5.33	2.90	0.99	3.90	—	17,805	17,805	0.72	0.22	2.69	17,891
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	26.4	24.8	90.6	98.8	0.19	3.51	5.29	6.89	3.23	2.67	4.26	—	19,526	19,526	0.77	0.30	0.12	19,621
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.25	7.03	52.2	56.0	0.11	1.98	1.13	3.11	1.82	0.50	2.32	—	11,192	11,192	0.44	0.14	0.77	11,246
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.51	1.28	9.52	10.2	0.02	0.36	0.21	0.57	0.33	0.09	0.42	—	1,853	1,853	0.07	0.02	0.13	1,862

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2025	11.6	9.69	82.8	88.5	0.18	3.16	2.18	5.33	2.90	0.99	3.90	—	17,805	17,805	0.72	0.22	2.69	17,891
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.42	3.72	36.2	33.8	0.05	1.60	5.29	6.89	1.47	2.67	4.14	—	5,565	5,565	0.23	0.30	0.12	5,590
2025	26.4	24.8	90.6	98.8	0.19	3.51	2.34	5.85	3.23	1.03	4.26	—	19,526	19,526	0.77	0.25	0.09	19,621
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.53	0.45	4.17	4.71	0.01	0.19	0.54	0.73	0.18	0.23	0.41	—	874	874	0.03	0.03	0.18	883
2025	8.25	7.03	52.2	56.0	0.11	1.98	1.13	3.11	1.82	0.50	2.32	—	11,192	11,192	0.44	0.14	0.77	11,246
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.10	0.08	0.76	0.86	< 0.005	0.03	0.10	0.13	0.03	0.04	0.07	—	145	145	0.01	< 0.005	0.03	146
2025	1.51	1.28	9.52	10.2	0.02	0.36	0.21	0.57	0.33	0.09	0.42	—	1,853	1,853	0.07	0.02	0.13	1,862

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.	2.67	2.50	9.54	10.7	0.03	0.27	0.21	0.48	0.25	0.05	0.31	79.9	16,984	17,064	10.4	0.40	19.8	17,463
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.66	2.50	9.57	10.5	0.03	0.27	0.21	0.48	0.25	0.05	0.31	79.9	16,968	17,048	10.4	0.40	18.7	17,447
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.96	1.90	2.84	3.34	0.01	0.08	0.21	0.28	0.07	0.05	0.12	79.9	14,716	14,796	10.3	0.38	19.2	15,187
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.36	0.35	0.52	0.61	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	13.2	2,436	2,450	1.70	0.06	3.18	2,514

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	0.06	0.05	0.29	0.75	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	367	367	0.01	0.03	1.09	378
Area	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,480	13,480	2.18	0.26	—	13,613
Water	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Waste	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Off-Road	0.98	0.82	9.26	9.94	0.03	0.27	—	0.27	0.25	—	0.25	—	3,108	3,108	0.13	0.03	—	3,118
Total	2.67	2.50	9.54	10.7	0.03	0.27	0.21	0.48	0.25	0.05	0.31	79.9	16,984	17,064	10.4	0.40	19.8	17,463
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.05	0.31	0.60	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	351	351	0.01	0.04	0.03	362
Area	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,480	13,480	2.18	0.26	—	13,613
Water	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Waste	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Off-Road	0.98	0.82	9.26	9.94	0.03	0.27	—	0.27	0.25	—	0.25	—	3,108	3,108	0.13	0.03	—	3,118
Total	2.66	2.50	9.57	10.5	0.03	0.27	0.21	0.48	0.25	0.05	0.31	79.9	16,968	17,048	10.4	0.40	18.7	17,447
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.05	0.30	0.62	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	355	355	0.01	0.04	0.47	366

Area	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13,480	13,480	2.18	0.26	—	13,613
Water	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Waste	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Off-Road	0.27	0.22	2.54	2.72	0.01	0.07	—	0.07	0.07	—	0.07	—	851	851	0.03	0.01	—	854
Total	1.96	1.90	2.84	3.34	0.01	0.08	0.21	0.28	0.07	0.05	0.12	79.9	14,716	14,796	10.3	0.38	19.2	15,187
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.06	0.11	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	58.7	58.7	< 0.005	0.01	0.08	60.6
Area	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,232	2,232	0.36	0.04	—	2,254
Water	—	—	—	—	—	—	—	—	—	—	—	5.27	5.01	10.3	0.54	0.01	—	27.7
Waste	—	—	—	—	—	—	—	—	—	—	—	7.95	0.00	7.95	0.79	0.00	—	27.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Off-Road	0.05	0.04	0.46	0.50	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141
Total	0.36	0.35	0.52	0.61	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	13.2	2,436	2,450	1.70	0.06	3.18	2,514

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	1.60	12.7	21.3	0.03	0.69	—	0.69	0.63	—	0.63	—	3,422	3,422	0.14	0.03	—	3,433
Demolition	—	—	—	—	—	—	1.24	1.24	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.80	1.34	< 0.005	0.04	—	0.04	0.04	—	0.04	—	216	216	0.01	< 0.005	—	216
Demolition	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.7	35.7	< 0.005	< 0.005	—	35.8
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.07	0.07	0.81	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	154	154	0.01	0.01	0.02	156
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	121
Hauling	0.06	0.03	2.03	0.45	0.01	0.03	0.41	0.44	0.03	0.11	0.14	—	1,571	1,571	0.03	0.25	0.10	1,647
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.02	10.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.26	7.26	< 0.005	< 0.005	0.01	7.60
Hauling	< 0.005	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	99.0	99.0	< 0.005	0.02	0.10	104
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.20	1.20	< 0.005	< 0.005	< 0.005	1.26
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.02	17.2

3.3. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.21	2.07	1.89	< 0.005	0.09	—	0.09	0.08	—	0.08	—	305	305	0.01	< 0.005	—	306
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.38	0.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.4	50.4	< 0.005	< 0.005	—	50.6
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	0.81	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	154	154	0.01	0.01	0.02	156
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	121
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	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.07	9.07	< 0.005	< 0.005	0.02	9.20
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	0.01	6.94
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.50	1.50	< 0.005	< 0.005	< 0.005	1.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.10	1.10	< 0.005	< 0.005	< 0.005	1.15
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Rail Spurs Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385
Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	16.0	15.8	0.03	0.68	—	0.68	0.63	—	0.63	—	3,373	3,373	0.14	0.03	—	3,385

Dust From Material Movement	—	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.64	7.54	0.01	0.33	—	0.33	0.30	—	0.30	—	1,608	1,608	0.07	0.01	—	1,614
Dust From Material Movement	—	—	—	—	—	—	0.81	0.81	—	0.42	0.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.15	1.39	1.38	< 0.005	0.06	—	0.06	0.05	—	0.05	—	266	266	0.01	< 0.005	—	267
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.52	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	92.5	92.5	< 0.005	< 0.005	0.34	94.0
Vendor	0.01	< 0.005	0.14	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.31	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.41	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	83.6	83.6	< 0.005	< 0.005	0.01	84.7
Vendor	0.01	< 0.005	0.15	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.01	118
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	0.02	0.02	0.02	0.20	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.8	40.8	< 0.005	< 0.005	0.07	41.4
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.0	54.0	< 0.005	0.01	0.06	56.5
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	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.76	6.76	< 0.005	< 0.005	0.01	6.86
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.94	8.94	< 0.005	< 0.005	0.01	9.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.38	2.00	18.9	21.4	0.03	0.89	—	0.89	0.82	—	0.82	—	3,425	3,425	0.14	0.03	—	3,437

Dust From Material Movement	—	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.14	1.29	< 0.005	0.05	—	0.05	0.05	—	0.05	—	206	206	0.01	< 0.005	—	207
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	137	137	0.01	0.01	0.02	139

Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	121
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	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.44	8.44	< 0.005	< 0.005	0.02	8.57
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.94	6.94	< 0.005	< 0.005	0.01	7.27
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.42
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.15	1.15	< 0.005	< 0.005	< 0.005	1.20
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building/Vertical Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.39	7.82	66.1	70.3	0.14	2.47	—	2.47	2.27	—	2.27	—	13,590	13,590	0.55	0.11	—	13,636
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.39	7.82	66.1	70.3	0.14	2.47	—	2.47	2.27	—	2.27	—	13,590	13,590	0.55	0.11	—	13,636

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.12	5.10	43.1	45.9	0.09	1.61	—	1.61	1.48	—	1.48	—	8,861	8,861	0.36	0.07	—	8,892
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.93	7.87	8.37	0.02	0.29	—	0.29	0.27	—	0.27	—	1,467	1,467	0.06	0.01	—	1,472
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.09	1.67	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	296	296	0.01	0.01	1.10	301
Vendor	0.02	0.01	0.42	0.14	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	340	340	0.01	0.05	0.93	356
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	0.14	0.12	0.12	1.32	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	267	267	0.01	0.01	0.03	271
Vendor	0.02	0.01	0.45	0.15	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	340	340	0.01	0.05	0.02	355
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	0.09	0.08	0.07	0.88	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	179	179	< 0.005	0.01	0.31	181
Vendor	0.01	0.01	0.29	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	222	222	< 0.005	0.03	0.26	232

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	0.02	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.6	29.6	< 0.005	< 0.005	0.05	30.0
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.7	36.7	< 0.005	0.01	0.04	38.4
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	0.00

3.11. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.88	1.18	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.16	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.5	29.5	< 0.005	< 0.005	—	29.6
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.66	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	134	134	< 0.005	0.01	0.01	136
Vendor	0.01	< 0.005	0.15	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.01	118
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.2	16.2	< 0.005	< 0.005	0.03	16.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.3	13.3	< 0.005	< 0.005	0.02	14.0
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.67	2.67	< 0.005	< 0.005	< 0.005	2.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.31
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

3.13. Architectural Coating (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	16.7	16.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	0.91	0.91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.58	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	117	117	< 0.005	< 0.005	0.01	119
Vendor	0.01	< 0.005	0.15	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.01	118
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	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.57	6.57	< 0.005	< 0.005	0.01	6.67
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.21	6.21	< 0.005	< 0.005	0.01	6.49
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.03	1.03	< 0.005	< 0.005	< 0.005	1.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.05	0.05	0.04	0.69	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.04	—	170	170	< 0.005	< 0.005	0.62	172
Parking Lot	0.01	< 0.005	0.25	0.07	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	197	197	< 0.005	0.03	0.47	207
Total	0.06	0.05	0.29	0.75	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	367	367	0.01	0.03	1.09	378
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.05	0.04	0.04	0.53	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.04	—	154	154	< 0.005	< 0.005	0.02	155
Parking Lot	0.01	< 0.005	0.27	0.07	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	197	197	< 0.005	0.03	0.01	206
Total	0.06	0.05	0.31	0.60	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	351	351	0.01	0.04	0.03	362
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.01	0.01	0.01	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	26.1	26.1	< 0.005	< 0.005	0.04	26.4
Parking Lot	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.6	32.6	< 0.005	0.01	0.03	34.2
Total	0.01	0.01	0.06	0.11	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	58.7	58.7	< 0.005	0.01	0.08	60.6

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	13,480	13,480	2.18	0.26	—	13,613
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,480	13,480	2.18	0.26	—	13,613
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	13,480	13,480	2.18	0.26	—	13,613
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,480	13,480	2.18	0.26	—	13,613
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	2,232	2,232	0.36	0.04	—	2,254
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,232	2,232	0.36	0.04	—	2,254

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	1.54	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.54	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.63	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.28	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.8	30.3	62.1	3.27	0.08	—	167
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	5.27	5.01	10.3	0.54	0.01	—	27.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.27	5.01	10.3	0.54	0.01	—	27.7

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	48.0	0.00	48.0	4.80	0.00	—	168
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	7.95	0.00	7.95	0.79	0.00	—	27.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.95	0.00	7.95	0.79	0.00	—	27.8

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.7	18.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.10	3.10

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.38	0.32	3.30	5.73	0.01	0.13	—	0.13	0.12	—	0.12	—	871	871	0.04	0.01	—	874

Rough Terrain Forklifts	0.59	0.50	5.95	4.21	0.02	0.14	—	0.14	0.13	—	0.13	—	2,236	2,236	0.09	0.02	—	2,244
Total	0.98	0.82	9.26	9.94	0.03	0.27	—	0.27	0.25	—	0.25	—	3,108	3,108	0.13	0.03	—	3,118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.38	0.32	3.30	5.73	0.01	0.13	—	0.13	0.12	—	0.12	—	871	871	0.04	0.01	—	874
Rough Terrain Forklifts	0.59	0.50	5.95	4.21	0.02	0.14	—	0.14	0.13	—	0.13	—	2,236	2,236	0.09	0.02	—	2,244
Total	0.98	0.82	9.26	9.94	0.03	0.27	—	0.27	0.25	—	0.25	—	3,108	3,108	0.13	0.03	—	3,118
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.02	0.02	0.17	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.5	39.5	< 0.005	< 0.005	—	39.7
Rough Terrain Forklifts	0.03	0.02	0.30	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	101	101	< 0.005	< 0.005	—	102
Total	0.05	0.04	0.46	0.50	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.01	< 0.005	—	141

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2024	10/31/2024	5.00	23.0	—
Site Preparation	Site Preparation	11/1/2024	11/30/2024	5.00	21.0	—
Rail Spurs Construction	Site Preparation	1/1/2025	9/1/2025	5.00	174	—
Grading	Grading	12/1/2024	12/31/2024	5.00	22.0	—
Building/Vertical Construction	Building Construction	1/1/2025	11/30/2025	5.00	238	—
Paving	Paving	1/1/2025	3/1/2025	5.00	43.0	—
Architectural Coating	Architectural Coating	11/1/2025	11/30/2025	5.00	20.0	—

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	Excavators	Diesel	Average	3.00	8.00	172	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Rail Spurs Construction	Excavators	Diesel	Average	1.00	8.00	172	0.38
Rail Spurs Construction	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40

Rail Spurs Construction	Tractors/Loaders/Back	Diesel	Average	1.00	8.00	84.0	0.37
Rail Spurs Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	280	0.42
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	172	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building/Vertical Construction	Forklifts	Diesel	Average	6.00	8.00	82.0	0.20
Building/Vertical Construction	Generator Sets	Diesel	Average	8.00	8.00	14.0	0.74
Building/Vertical Construction	Cranes	Diesel	Average	8.00	7.00	367	0.29
Building/Vertical Construction	Welders	Diesel	Average	20.0	8.00	46.0	0.45
Building/Vertical Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	18.0	11.9	LDA,LDT1,LDT2
Demolition	Vendor	4.00	9.10	HHDT,MHDT

Demolition	Hauling	22.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	4.00	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building/Vertical Construction	—	—	—	—
Building/Vertical Construction	Worker	32.0	11.9	LDA,LDT1,LDT2
Building/Vertical Construction	Vendor	12.0	9.10	HHDT,MHDT
Building/Vertical Construction	Hauling	0.00	20.0	HHDT
Building/Vertical Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	4.00	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	14.0	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Rail Spurs Construction	—	—	—	—

Rail Spurs Construction	Worker	10.0	11.9	LDA,LDT1,LDT2
Rail Spurs Construction	Vendor	4.00	9.10	HHDT,MHDT
Rail Spurs Construction	Hauling	0.00	20.0	HHDT
Rail Spurs Construction	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	107,805	35,935	0.00

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,000	—
Site Preparation	—	—	31.5	0.00	—
Rail Spurs Construction	—	—	87.0	0.00	—
Grading	—	—	22.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Heavy Industry	0.00	0%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	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
General Heavy Industry	16.0	16.0	16.0	5,840	222	222	222	81,200
Parking Lot	4.00	4.00	4.00	1,460	55.6	55.6	55.6	20,300

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	107,805	35,935	2,614

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	24,120,000	204	0.0330	0.0040	0.00
Parking Lot	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	16,619,938	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	89.1	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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
Tractors/Loaders/Backhoes	Diesel	Average	1.00	24.0	84.0	0.37
Rough Terrain Forklifts	Diesel	Average	1.00	24.0	200	0.40

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	23.2	annual days of extreme heat
Extreme Precipitation	2.40	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.10	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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

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	48.6
AQ-PM	46.2
AQ-DPM	25.0
Drinking Water	93.7
Lead Risk Housing	56.2
Pesticides	92.2
Toxic Releases	34.5
Traffic	7.53
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	98.7
Haz Waste Facilities/Generators	72.6
Impaired Water Bodies	99.0
Solid Waste	63.7

Sensitive Population	—
Asthma	65.2
Cardio-vascular	48.2
Low Birth Weights	93.1
Socioeconomic Factor Indicators	—
Education	87.9
Housing	—
Linguistic	75.8
Poverty	88.6
Unemployment	—

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	19.45335558
Employed	55.33170794
Median HI	19.26087514
Education	—
Bachelor's or higher	18.02900038
High school enrollment	100
Preschool enrollment	69.84473245
Transportation	—
Auto Access	74.57975106
Active commuting	60.6698319
Social	—
2-parent households	85.48697549
Voting	74.16912614

Neighborhood	—
Alcohol availability	97.0101373
Park access	4.812010779
Retail density	0.115488259
Supermarket access	10.30411908
Tree canopy	60.24637495
Housing	—
Homeownership	30.01411523
Housing habitability	66.81637367
Low-inc homeowner severe housing cost burden	96.94597716
Low-inc renter severe housing cost burden	97.62607468
Uncrowded housing	30.36058001
Health Outcomes	—
Insured adults	11.85679456
Arthritis	0.0
Asthma ER Admissions	15.2
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	15.5
Cognitively Disabled	15.9
Physically Disabled	41.1
Heart Attack ER Admissions	27.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0

Obesity	0.0
Pedestrian Injuries	88.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	96.8
Elderly	20.7
English Speaking	7.7
Foreign-born	56.2
Outdoor Workers	0.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	99.5
Traffic Density	4.4
Traffic Access	0.0
Other Indices	—
Hardship	67.6
Other Decision Support	—
2016 Voting	46.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	93.0

Healthy Places Index Score for Project Location (b)	41.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on data from applicant. Parking lot included for fleet mix purposes.
Construction: Construction Phases	Applicant provided information.
Construction: Off-Road Equipment	Based on data from applicant. Other construction equipment represents a rail tamper.
Construction: Trips and VMT	Rounded up to nearest even integer. Added in vendor trucks.
Operations: Energy Use	Electricity provided by applicant. No natural gas to be used at facility. No parking lot.
Operations: Off-Road Equipment	Forklifts represent yard trucks. Equipment operating 24 hours per day and 2400 hour per year.
Operations: Fleet Mix	Fleet mix based on trips during operations.
Construction: Paving	no parking lot, only for trip purposes
Construction: Architectural Coatings	No parking area.
Operations: Vehicle Data	Trip rates back-calculated from daily trips.
Operations: Consumer Products	no parking lot.