

Appendix H.4

Air Quality and Greenhouse Gas Supplemental Memorandum 2025

July 8, 2025

Mr. Chris Fahey
Starlight Solar LLC
12302 Exposition Boulevard
Los Angeles, California 90064

**Subject: Starlight Solar Project – Air Quality and Greenhouse Gas Technical Study
Memorandum – Fugitive Dust Control Measures Update**

Dear Mr. Fahey:

INTRODUCTION

Yorke Engineering, LLC (Yorke) has prepared this memorandum to provide an update to the May 2024 *Starlight Solar Project Air Quality and Greenhouse Gas Technical Study*. This update quantifies the additional mobile source emissions from water trucks resulting from increased water application rates for fugitive dust control (measures) during Phases I and II of project construction. As shown below, the emissions increases are minor and do not change the significance conclusions contained in the May 2024 *Air Quality and Greenhouse Gas Technical Study*.

AIR QUALITY AND GREENHOUSE GASES

Background

The May 2024 *Starlight Solar Air Quality and Greenhouse Gas Technical Study* and the San Diego County *Climate Action Plan (CAP) Consistency Review Checklist* was approved as final by San Diego County on July 17, 2024.

The finalized May 2024 *Air Quality and Greenhouse Gas Technical Study* quantified project construction emissions using CalEEMod version 2022.1.1.20 using the assumption that the project would be constructed in two phases across a 592-acre site. The original project included the Major Use Permit (MUP) project site of approximately 585 acres in aggregate, an off-site generation tie-line (gen-tie) area of 7 acres, and an off-site vehicle turnaround area of 0.06 acre. The project design was updated in February 2024 with a 10-acre reduction in ground disturbance for the MUP area, currently 575 acres, with no changes to the gen-tie and off-site vehicle turnaround areas. As explained in our May 9, 2024, memorandum, the 10-acre reduction, or 1.7% less ground disturbance, would not be substantive with respect to construction emissions, including fugitive dust generation, and would not affect any significance determinations.

Dust Control Update

In June 2025 construction planners determined that more water application would be needed for fugitive dust control, mainly during site preparation and grading. The water demand memorandum was revised, subject to the County's approval. Based on the new water demand estimates, more than three water truck trips per day would be needed in Phase I, and more than seven water truck trips per day would be needed in Phase II. Original estimates were three water truck trips per day for both Phases. Other construction period daily truck trip counts have not changed.

The additional water truck trips, a portion of “vendor” truck trips in CalEEMod, were incorporated into the CalEEMod input data set and run using the current CalEEMod version 2022.1.1.29 as the update. As a quality control first step, the original version 2022.1.1.20 results were replicated using version 2022.1.1.29. Thus, the only differences in results were due to the increased vendor truck trip rates. Refer to the Attachment A tables, listed below, that show the updated inputs and output results. The updated CalEEMod output is provided as Attachment B.

List of Attached Tables

- Table 1: Original Project Trip Rates by Phase;
- Table 2: Update Project Trip Rates by Phase;
- Table 3: Vendor Truck Peak Daily NO_x Emissions by Phase;
- Table 4: Peak Daily Construction Emissions Summary and Significance Evaluation;
- Table 5: Annual Construction Emissions Summary and Significance Evaluation;
- Table 6: Hourly Construction Emissions Summary and Significance Evaluation; and
- Table 7: Construction Greenhouse Gas Emissions Summary and Significance Evaluation.

Discussion

Tables 1 and 2 show the CalEEMod worker, vendor, and haul truck daily trip rates for the original and updated projects, respectively. As shown, the updated total daily trips increases from 516 to 518 for Phase I, and from 1,390 to 1,400 for Phase II.

Table 3 shows the peak daily NO_x emissions for vendor trucks by Phase, comparing the updated project emissions to the original project emissions. As shown, the emissions increases are minor, with a maximum increase of 0.17 lbs/day NO_x during Site Preparation II or Grading II. For diesel-powered trucks, NO_x is a characterizing criteria pollutant, i.e., indicator of change.

Tables 4, 5 and 6 compare the updated project construction criteria pollutant emissions to the original project construction emissions on peak daily, annual, and hourly bases. As shown, the emissions increases are minor, and no significance thresholds are exceeded.

Table 7 compares the updated project construction greenhouse gas (GHG) emissions to the original project construction GHG emissions on a total and 30-year amortized annual basis. As shown, the amortized annual emissions increase is minor, and the significance threshold is not exceeded.

Conclusion

As shown in Tables 4 through 7, the increases in vendor truck trip rates shown across Tables 1 and 2, where the changes are from the additional water trucks, have no effect on significance findings because no thresholds are exceeded for either the original project or the updated project.

IMPACT: Less Than Significant.

Starlight Solar LLC

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Should you have any questions, please contact me at (805) 293-7867 or Tina Darjazanie at (949) 248-8490.

Sincerely,



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ATTACHMENT A

Table 1: Original Project Trip Rates by Phase

Table 2: Update Project Trip Rates by Phase

Table 3: Vendor Truck Peak Daily NO_x Emissions by Phase

Table 4: Peak Daily Construction Emissions Summary and Significance Evaluation

Table 5: Annual Construction Emissions Summary and Significance Evaluation

Table 6: Hourly Construction Emissions Summary and Significance Evaluation

Table 7: Construction Greenhouse Gas Emissions Summary and Significance Evaluation

Table 1: Original Project Trip Rates by Phase

Project Phases	Worker (trips/day)	Vendor (trips/day)	Hauling (trips/day)	Phase I Totals	Phase II Totals
Site Preparation I	7	6	144	157	—
Grading I	7	6	144	157	—
Building Construction I	160	5	0	165	—
Gen-Tie Line I	7	5	24	36	—
Site Preparation II	126	277	117	—	520
Grading II	126	277	117	—	520
Building Construction II	200	150	0	—	350
Original Project Totals				516	1,390

Sources: Applicant, CalEEMod version 2022.1.1.29

Table 2: Update Project Trip Rates by Phase

Project Phases	Worker (trips/day)	Vendor (trips/day)	Hauling (trips/day)	Phase I Totals	Phase II Totals
Site Preparation I	7	6	144	157	—
Grading I	7	6	144	157	—
Building Construction I	160	6	0	166	—
Gen-Tie Line I	7	6	24	37	—
Site Preparation II	126	282	117	—	525
Grading II	126	282	117	—	525
Building Construction II	200	150	0	—	350
Update Project Totals				518	1,400

Sources: Applicant, CalEEMod version 2022.1.1.29

Table 3: Vendor Truck Peak Daily NO_x Emissions by Phase

Project Phases	Original Peak Daily NO _x (lbs/day)	Update Peak Daily NO _x (lbs/day)	Change Peak Daily NO _x (lbs/day)
Site Preparation I	0.22	0.22	0.00
Grading I	0.22	0.22	0.00
Building Construction I	0.17	0.20	0.03
Gen-Tie Line I	0.18	0.22	0.04
Site Preparation II	9.12	9.29	0.17
Grading II	9.12	9.29	0.17
Building Construction II	4.72	4.72	0.00

Source: CalEEMod version 2022.1.1.29

Notes:

lbs/day are winter or summer maxima for planned land use

Table 4: Peak Daily Construction Emissions Summary and Significance Evaluation

Criteria Pollutants	Original Baseline (lbs/day)	Original Design (lbs/day)	Updated Baseline (lbs/day)	Updated Design (lbs/day)	Threshold (lbs/day)	Threshold Exceeded?
ROG (VOC)	6.51	6.51	6.51	6.51	75	No
NO _x	65.39	65.39	65.43	65.43	250	No
CO	61.10	61.10	61.11	61.11	550	No
SO _x	0.11	0.11	0.11	0.11	250	No
Total PM ₁₀	30.05	10.18	30.06	10.18	100	No
Total PM _{2.5}	16.21	6.18	16.21	6.18	55	No

Sources: SDAPCD 2020, CalEEMod version 2022.1.1.29

Notes:

lbs/day are winter or summer maxima for planned land use

Total PM₁₀ / PM_{2.5} comprises fugitive dust plus engine exhaust

Table 5: Annual Construction Emissions Summary and Significance Evaluation

Criteria Pollutants	Original Baseline (tons/yr)	Original Design (tons/yr)	Updated Baseline (tons/yr)	Updated Design (tons/yr)	Threshold (tons/yr)	Threshold Exceeded?
ROG (VOC)	0.47	0.47	0.47	0.47	13.7	No
NO _x	4.06	4.06	4.07	4.07	40	No
CO	4.68	4.68	4.68	4.68	100	No
SO _x	0.01	0.01	0.01	0.01	40	No
Total PM ₁₀	1.33	0.56	1.33	0.56	15	No
Total PM _{2.5}	0.64	0.30	0.64	0.30	10	No

Sources: SDAPCD 2020, CalEEMod version 2022.1.1.29

Notes:

Total PM₁₀ / PM_{2.5} comprises fugitive dust plus engine exhaust

Table 6: Hourly Construction Emissions Summary and Significance Evaluation

Criteria Pollutants	Original Baseline (lbs/hr)	Original Design (lbs/hr)	Updated Baseline (lbs/hr)	Updated Design (lbs/hr)	Threshold (lbs/hr)	Threshold Exceeded?
ROG (VOC)	0.81	0.81	0.81	0.81	—	—
NO _x	8.17	8.17	8.18	8.18	25	No
CO	7.64	7.64	7.64	7.64	100	No
SO _x	0.01	0.01	0.01	0.01	25	No
Total PM ₁₀	3.76	1.27	3.76	1.27	—	—
Total PM _{2.5}	2.03	0.77	2.03	0.77	—	—

Sources: SDAPCD 2020, CalEEMod version 2022.1.1.29

Notes:

lbs/hr are winter or summer maxima for planned land use

Assumes 8-hour construction workday

Total PM₁₀ / PM_{2.5} comprises fugitive dust plus engine exhaust

Table 7: Construction Greenhouse Gas Emissions Summary and Significance Evaluation						
Greenhouse Gases	Original Design (MT)	Original Design (MT/yr)	Updated Design (MT)	Updated Design (MT/yr)	Threshold (MT/yr)	Threshold Exceeded?
CO ₂	3,086	102.9	3,100	103.3	—	—
CH ₄	0.135	0.005	0.140	0.005	—	—
N ₂ O	0.178	0.006	0.180	0.006	—	—
CO ₂ e	3,144	104.8	3,158	105.3	900	No

Sources: CAPCOA 2008, CalEEMod version 2022.1.1.29

Notes:

MT - Metric Ton (MT=1.1023 short ton)

Annual rate (MT/yr) is total construction emissions (MT) amortized over 30 years

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Table 7: Construction Greenhouse Gas Emissions Summary and Significance Evaluation

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ATTACHMENT B

Updated CalEEMod version 2022.1.1.29 Output

Starlight Solar v2 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Starlight Solar v2
Construction Start Date	10/1/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.70
Precipitation (days)	3.40
Location	Boulevard, CA 91905, USA
County	San Diego
City	Unincorporated
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6101
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

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	25,483	1000sqft	585	479,160	254,826	0.00	—	—
User Defined Linear	0.64	Mile	7.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-12	Sweep Paved Roads

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.29	40.8	45.5	0.10	1.43	22.8	24.1	1.32	10.9	12.2	—	14,199	14,199	0.61	1.21	14,598
Mit.	4.29	40.8	45.5	0.10	1.43	8.17	9.51	1.32	3.42	4.67	—	14,199	14,199	0.61	1.21	14,598
% Reduced	—	—	—	—	—	64%	61%	—	69%	62%	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.51	65.4	61.1	0.11	2.77	27.3	30.1	2.55	13.7	16.2	—	15,441	15,441	0.67	1.23	15,824
Mit.	6.51	65.4	61.1	0.11	2.77	8.17	10.2	2.55	3.63	6.18	—	15,441	15,441	0.67	1.23	15,824
% Reduced	—	—	—	—	—	70%	66%	—	73%	62%	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.55	22.3	25.7	0.04	0.91	6.82	7.30	0.83	3.05	3.50	—	5,956	5,956	0.25	0.46	6,103
Mit.	2.55	22.3	25.7	0.04	0.91	2.60	3.08	0.83	1.01	1.62	—	5,956	5,956	0.25	0.46	6,103

% Reduced	—	—	—	—	—	62%	58%	—	67%	54%	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.47	4.07	4.68	0.01	0.17	1.24	1.33	0.15	0.56	0.64	—	986	986	0.04	0.08	1,010
Mit.	0.47	4.07	4.68	0.01	0.17	0.47	0.56	0.15	0.18	0.30	—	986	986	0.04	0.08	1,010
% Reduced	—	—	—	—	—	62%	58%	—	67%	54%	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	—	Yes	Yes	—	Yes	—	—	—	—	—	—	—	—
Mit.	—	Yes	Yes	—	Yes	Yes	—	Yes	—	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	Yes	Yes	—	Yes	Yes	—	Yes	—	—	—	—	—	—	—	—
Mit.	—	Yes	Yes	—	Yes	Yes	—	Yes	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.29	34.6	45.5	0.07	1.43	8.62	10.1	1.32	3.79	5.11	—	8,824	8,824	0.38	0.18	8,893
2026	3.92	40.8	39.9	0.10	1.35	22.8	24.1	1.25	10.9	12.2	—	14,199	14,199	0.61	1.21	14,598
2027	1.86	14.4	23.3	0.05	0.39	2.65	3.04	0.36	0.66	1.02	—	7,831	7,831	0.32	0.59	8,029

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	6.51	65.4	61.1	0.11	2.77	27.3	30.1	2.55	13.7	16.2	—	12,606	12,606	0.58	0.33	12,719
2025	5.84	56.5	55.4	0.11	2.25	16.8	19.1	2.07	7.21	9.28	—	12,577	12,577	0.58	0.32	12,689
2026	3.90	41.3	39.4	0.11	1.35	22.8	24.1	1.25	10.9	12.2	—	15,441	15,441	0.67	1.23	15,824
2027	3.68	37.3	37.4	0.11	1.15	12.3	13.5	1.06	4.46	5.52	—	15,258	15,258	0.67	1.18	15,625
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.17	11.8	11.0	0.02	0.50	4.89	5.39	0.46	2.45	2.91	—	2,037	2,037	0.10	0.06	2,057
2025	2.55	22.3	25.7	0.04	0.91	6.03	6.94	0.83	2.62	3.45	—	5,331	5,331	0.24	0.12	5,375
2026	1.42	14.9	14.3	0.04	0.48	6.82	7.30	0.44	3.05	3.50	—	5,398	5,398	0.23	0.45	5,541
2027	1.41	11.9	16.8	0.04	0.32	2.53	2.86	0.30	0.73	1.03	—	5,956	5,956	0.25	0.46	6,103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.21	2.15	2.01	< 0.005	0.09	0.89	0.98	0.08	0.45	0.53	—	337	337	0.02	0.01	341
2025	0.47	4.07	4.68	0.01	0.17	1.10	1.27	0.15	0.48	0.63	—	883	883	0.04	0.02	890
2026	0.26	2.72	2.61	0.01	0.09	1.24	1.33	0.08	0.56	0.64	—	894	894	0.04	0.07	917
2027	0.26	2.17	3.06	0.01	0.06	0.46	0.52	0.06	0.13	0.19	—	986	986	0.04	0.08	1,010

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.29	34.6	45.5	0.07	1.43	3.37	4.80	1.32	1.25	2.57	—	8,824	8,824	0.38	0.18	8,893
2026	3.92	40.8	39.9	0.10	1.35	8.17	9.51	1.25	3.42	4.67	—	14,199	14,199	0.61	1.21	14,598
2027	1.86	14.4	23.3	0.05	0.39	2.65	3.04	0.36	0.66	1.02	—	7,831	7,831	0.32	0.59	8,029
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	6.51	65.4	61.1	0.11	2.77	7.41	10.2	2.55	3.63	6.18	—	12,606	12,606	0.58	0.33	12,719
2025	5.84	56.5	55.4	0.11	2.25	4.69	6.94	2.07	1.96	4.03	—	12,577	12,577	0.58	0.32	12,689
2026	3.90	41.3	39.4	0.11	1.35	8.17	9.51	1.25	3.42	4.67	—	15,441	15,441	0.67	1.23	15,824
2027	3.68	37.3	37.4	0.11	1.15	5.45	6.60	1.06	1.75	2.81	—	15,258	15,258	0.67	1.18	15,625
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.17	11.8	11.0	0.02	0.50	1.33	1.83	0.46	0.65	1.11	—	2,037	2,037	0.10	0.06	2,057
2025	2.55	22.3	25.7	0.04	0.91	2.03	2.93	0.83	0.79	1.62	—	5,331	5,331	0.24	0.12	5,375
2026	1.42	14.9	14.3	0.04	0.48	2.60	3.08	0.44	1.01	1.45	—	5,398	5,398	0.23	0.45	5,541
2027	1.41	11.9	16.8	0.04	0.32	2.05	2.38	0.30	0.54	0.84	—	5,956	5,956	0.25	0.46	6,103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.21	2.15	2.01	< 0.005	0.09	0.24	0.33	0.08	0.12	0.20	—	337	337	0.02	0.01	341
2025	0.47	4.07	4.68	0.01	0.17	0.37	0.53	0.15	0.14	0.30	—	883	883	0.04	0.02	890
2026	0.26	2.72	2.61	0.01	0.09	0.47	0.56	0.08	0.18	0.26	—	894	894	0.04	0.07	917
2027	0.26	2.17	3.06	0.01	0.06	0.37	0.43	0.06	0.10	0.15	—	986	986	0.04	0.08	1,010

3. Construction Emissions Details

3.1. Site Preparation I (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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	—	—	—	—	—	19.8	19.8	—	10.1	10.1	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	6.40	5.86	0.01	0.28	—	0.28	0.26	—	0.26	—	943	943	0.04	0.01	946
Dust From Material Movement	—	—	—	—	—	3.52	3.52	—	1.80	1.80	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.17	1.07	< 0.005	0.05	—	0.05	0.05	—	0.05	—	156	156	0.01	< 0.005	157
Dust From Material Movement	—	—	—	—	—	0.64	0.64	—	0.33	0.33	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.30	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	63.9	63.9	< 0.005	< 0.005	64.8
Vendor	0.01	0.22	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	159
Hauling	0.10	3.21	1.83	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	1,031	1,031	0.10	0.17	1,083

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	11.7
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.2	27.2	< 0.005	< 0.005	28.4
Hauling	0.02	0.56	0.32	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	183	183	0.02	0.03	193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.90	1.90	< 0.005	< 0.005	1.93
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.51	4.51	< 0.005	< 0.005	4.70
Hauling	< 0.005	0.10	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.3	30.3	< 0.005	< 0.005	31.9

3.2. Site Preparation I (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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	—	—	—	—	—	5.14	5.14	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	6.40	5.86	0.01	0.28	—	0.28	0.26	—	0.26	—	943	943	0.04	0.01	946

Dust From Material Movement	—	—	—	—	—	0.91	0.91	—	0.47	0.47	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.17	1.07	< 0.005	0.05	—	0.05	0.05	—	0.05	—	156	156	0.01	< 0.005	157
Dust From Material Movement	—	—	—	—	—	0.17	0.17	—	0.09	0.09	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.30	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	63.9	63.9	< 0.005	< 0.005	64.8
Vendor	0.01	0.22	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	159
Hauling	0.10	3.21	1.83	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	1,031	1,031	0.10	0.17	1,083
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	11.7
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.2	27.2	< 0.005	< 0.005	28.4
Hauling	0.02	0.56	0.32	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	183	183	0.02	0.03	193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.90	1.90	< 0.005	< 0.005	1.93
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.51	4.51	< 0.005	< 0.005	4.70
Hauling	< 0.005	0.10	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.3	30.3	< 0.005	< 0.005	31.9

3.3. Site Preparation II (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	5,316
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	5,316
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.39	6.31	0.01	0.27	—	0.27	0.25	—	0.25	—	1,161	1,161	0.05	0.01	1,165
Dust From Material Movement	—	—	—	—	—	4.33	4.33	—	2.22	2.22	—	—	—	—	—	—

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.17	1.15	< 0.005	0.05	—	0.05	0.05	—	0.05	—	192	192	0.01	< 0.005	193
Dust From Material Movement	—	—	—	—	—	0.79	0.79	—	0.40	0.40	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.35	5.45	0.00	0.00	1.07	1.07	0.00	0.25	0.25	—	1,171	1,171	0.06	0.04	1,189
Vendor	0.24	8.93	4.20	0.05	0.09	1.80	1.90	0.09	0.50	0.59	—	6,927	6,927	0.26	1.00	7,248
Hauling	0.09	2.39	1.45	0.01	0.01	0.16	0.17	0.01	0.04	0.05	—	802	802	0.08	0.13	844
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.39	4.80	0.00	0.00	1.07	1.07	0.00	0.25	0.25	—	1,106	1,106	0.06	0.04	1,121
Vendor	0.23	9.29	4.27	0.05	0.09	1.80	1.90	0.09	0.50	0.59	—	6,932	6,932	0.26	1.00	7,236
Hauling	0.08	2.50	1.49	0.01	0.01	0.16	0.17	0.01	0.04	0.05	—	805	805	0.08	0.13	846
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	1.06	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	245	245	0.01	0.01	248
Vendor	0.05	2.02	0.92	0.01	0.02	0.39	0.42	0.02	0.11	0.13	—	1,519	1,519	0.06	0.22	1,587
Hauling	0.02	0.54	0.32	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	176	176	0.02	0.03	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.5	40.5	< 0.005	< 0.005	41.1
Vendor	0.01	0.37	0.17	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	251	251	0.01	0.04	263

Hauling	< 0.005	0.10	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.2	29.2	< 0.005	< 0.005	30.7
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3.4. Site Preparation II (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	5,316
Dust From Material Movement	—	—	—	—	—	5.13	5.13	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	5,316
Dust From Material Movement	—	—	—	—	—	5.13	5.13	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.39	6.31	0.01	0.27	—	0.27	0.25	—	0.25	—	1,161	1,161	0.05	0.01	1,165

Dust From Material Movement	—	—	—	—	—	1.12	1.12	—	0.58	0.58	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.17	1.15	< 0.005	0.05	—	0.05	0.05	—	0.05	—	192	192	0.01	< 0.005	193
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.35	5.45	0.00	0.00	1.07	1.07	0.00	0.25	0.25	—	1,171	1,171	0.06	0.04	1,189
Vendor	0.24	8.93	4.20	0.05	0.09	1.80	1.90	0.09	0.50	0.59	—	6,927	6,927	0.26	1.00	7,248
Hauling	0.09	2.39	1.45	0.01	0.01	0.16	0.17	0.01	0.04	0.05	—	802	802	0.08	0.13	844
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.39	4.80	0.00	0.00	1.07	1.07	0.00	0.25	0.25	—	1,106	1,106	0.06	0.04	1,121
Vendor	0.23	9.29	4.27	0.05	0.09	1.80	1.90	0.09	0.50	0.59	—	6,932	6,932	0.26	1.00	7,236
Hauling	0.08	2.50	1.49	0.01	0.01	0.16	0.17	0.01	0.04	0.05	—	805	805	0.08	0.13	846
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	1.06	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	245	245	0.01	0.01	248
Vendor	0.05	2.02	0.92	0.01	0.02	0.39	0.42	0.02	0.11	0.13	—	1,519	1,519	0.06	0.22	1,587
Hauling	0.02	0.54	0.32	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	176	176	0.02	0.03	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.5	40.5	< 0.005	< 0.005	41.1
Vendor	0.01	0.37	0.17	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	251	251	0.01	0.04	263
Hauling	< 0.005	0.10	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.2	29.2	< 0.005	< 0.005	30.7

3.5. Grading I (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	9.30	9.30	—	3.67	3.67	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.9	12.9	< 0.005	< 0.005	13.0
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.14	2.14	< 0.005	< 0.005	2.15
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.30	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	63.9	63.9	< 0.005	< 0.005	64.8
Vendor	0.01	0.22	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	159
Hauling	0.10	3.21	1.83	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	1,031	1,031	0.10	0.17	1,083
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	0.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	0.31
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.01	2.01	< 0.005	< 0.005	2.12
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	0.02
Vendor	< 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	0.05
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	0.35

3.6. Grading I (2024) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	2.42	2.42	—	0.95	0.95	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.9	12.9	< 0.005	< 0.005	13.0
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.14	2.14	< 0.005	< 0.005	2.15
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.30	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	63.9	63.9	< 0.005	< 0.005	64.8
Vendor	0.01	0.22	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	159
Hauling	0.10	3.21	1.83	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	1,031	1,031	0.10	0.17	1,083
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	0.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	0.31
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.01	2.01	< 0.005	< 0.005	2.12
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	0.02
Vendor	< 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	0.05
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	0.35

3.7. Grading I (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	6,622
Dust From Material Movement	—	—	—	—	—	9.30	9.30	—	3.67	3.67	—	—	—	—	—	—

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	5.23	4.99	0.01	0.22	—	0.22	0.20	—	0.20	—	1,162	1,162	0.05	0.01	1,166
Dust From Material Movement	—	—	—	—	—	1.64	1.64	—	0.65	0.65	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.95	0.91	< 0.005	0.04	—	0.04	0.04	—	0.04	—	192	192	0.01	< 0.005	193
Dust From Material Movement	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.28	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.7	62.7	< 0.005	< 0.005	63.5
Vendor	0.01	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	157
Hauling	0.10	3.14	1.84	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	1,011	1,011	0.10	0.16	1,061
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	11.3
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.5	26.5	< 0.005	< 0.005	27.6

Hauling	0.02	0.54	0.32	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	178	178	0.02	0.03	187
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.85	1.85	< 0.005	< 0.005	1.87
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.38	4.38	< 0.005	< 0.005	4.57
Hauling	< 0.005	0.10	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	30.9

3.8. Grading I (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	6,622
Dust From Material Movement	—	—	—	—	—	2.42	2.42	—	0.95	0.95	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	5.23	4.99	0.01	0.22	—	0.22	0.20	—	0.20	—	1,162	1,162	0.05	0.01	1,166
Dust From Material Movement	—	—	—	—	—	0.43	0.43	—	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.95	0.91	< 0.005	0.04	—	0.04	0.04	—	0.04	—	192	192	0.01	< 0.005	193
Dust From Material Movement	—	—	—	—	—	0.08	0.08	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.28	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.7	62.7	< 0.005	< 0.005	63.5
Vendor	0.01	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	157
Hauling	0.10	3.14	1.84	0.01	0.01	0.20	0.21	0.01	0.05	0.07	—	1,011	1,011	0.10	0.16	1,061
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	11.3
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.5	26.5	< 0.005	< 0.005	27.6
Hauling	0.02	0.54	0.32	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	178	178	0.02	0.03	187
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.85	1.85	< 0.005	< 0.005	1.87
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.38	4.38	< 0.005	< 0.005	4.57
Hauling	< 0.005	0.10	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	30.9

3.9. Grading II (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	9.29	9.29	—	3.67	3.67	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	4.05	4.10	0.01	0.17	—	0.17	0.15	—	0.15	—	981	981	0.04	0.01	985
Dust From Material Movement	—	—	—	—	—	1.38	1.38	—	0.55	0.55	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.74	0.75	< 0.005	0.03	—	0.03	0.03	—	0.03	—	162	162	0.01	< 0.005	163
Dust From Material Movement	—	—	—	—	—	0.25	0.25	—	0.10	0.10	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.39	4.80	0.00	0.00	1.07	1.07	0.00	0.25	0.25	—	1,106	1,106	0.06	0.04	1,121
Vendor	0.23	9.29	4.27	0.05	0.09	1.80	1.90	0.09	0.50	0.59	—	6,932	6,932	0.26	1.00	7,236
Hauling	0.08	2.50	1.49	0.01	0.01	0.16	0.17	0.01	0.04	0.05	—	805	805	0.08	0.13	846
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.72	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	166	166	0.01	0.01	168
Vendor	0.03	1.37	0.63	0.01	0.01	0.27	0.28	0.01	0.07	0.09	—	1,031	1,031	0.04	0.15	1,077
Hauling	0.01	0.37	0.22	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	119	119	0.01	0.02	126
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.5	27.5	< 0.005	< 0.005	27.9
Vendor	0.01	0.25	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	171	171	0.01	0.02	178
Hauling	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.8	19.8	< 0.005	< 0.005	20.8

3.10. Grading II (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	6,621

Dust From Material Movement	—	—	—	—	—	2.41	2.41	—	0.95	0.95	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	4.05	4.10	0.01	0.17	—	0.17	0.15	—	0.15	—	981	981	0.04	0.01	985
Dust From Material Movement	—	—	—	—	—	0.36	0.36	—	0.14	0.14	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.74	0.75	< 0.005	0.03	—	0.03	0.03	—	0.03	—	162	162	0.01	< 0.005	163
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.39	4.80	0.00	0.00	1.07	1.07	0.00	0.25	0.25	—	1,106	1,106	0.06	0.04	1,121
Vendor	0.23	9.29	4.27	0.05	0.09	1.80	1.90	0.09	0.50	0.59	—	6,932	6,932	0.26	1.00	7,236
Hauling	0.08	2.50	1.49	0.01	0.01	0.16	0.17	0.01	0.04	0.05	—	805	805	0.08	0.13	846

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.72	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	166	166	0.01	0.01	168
Vendor	0.03	1.37	0.63	0.01	0.01	0.27	0.28	0.01	0.07	0.09	—	1,031	1,031	0.04	0.15	1,077
Hauling	0.01	0.37	0.22	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	119	119	0.01	0.02	126
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.5	27.5	< 0.005	< 0.005	27.9
Vendor	0.01	0.25	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	171	171	0.01	0.02	178
Hauling	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.8	19.8	< 0.005	< 0.005	20.8

3.11. Grading II (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	9.29	9.29	—	3.67	3.67	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	1.80	1.92	< 0.005	0.07	—	0.07	0.07	—	0.07	—	465	465	0.02	< 0.005	466

Dust From Material Movement	—	—	—	—	—	0.65	0.65	—	0.26	0.26	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.33	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.0	77.0	< 0.005	< 0.005	77.2
Dust From Material Movement	—	—	—	—	—	0.12	0.12	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.39	4.54	0.00	0.00	1.07	1.07	0.00	0.25	0.25	—	1,087	1,087	0.06	0.04	1,102
Vendor	0.22	8.86	4.10	0.05	0.09	1.80	1.90	0.09	0.50	0.59	—	6,784	6,784	0.26	0.95	7,075
Hauling	0.08	2.45	1.48	0.01	0.01	0.16	0.17	0.01	0.04	0.05	—	788	788	0.08	0.13	828
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.32	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	77.3	77.3	< 0.005	< 0.005	78.4
Vendor	0.02	0.62	0.29	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	478	478	0.02	0.07	499
Hauling	0.01	0.17	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	55.4	55.4	0.01	0.01	58.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	13.0
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	79.1	79.1	< 0.005	0.01	82.6
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.17	9.17	< 0.005	< 0.005	9.63

3.12. Grading II (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	2.41	2.41	—	0.95	0.95	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	1.80	1.92	< 0.005	0.07	—	0.07	0.07	—	0.07	—	465	465	0.02	< 0.005	466
Dust From Material Movement	—	—	—	—	—	0.17	0.17	—	0.07	0.07	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.33	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.0	77.0	< 0.005	< 0.005	77.2
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.39	4.54	0.00	0.00	1.07	1.07	0.00	0.25	0.25	—	1,087	1,087	0.06	0.04	1,102
Vendor	0.22	8.86	4.10	0.05	0.09	1.80	1.90	0.09	0.50	0.59	—	6,784	6,784	0.26	0.95	7,075
Hauling	0.08	2.45	1.48	0.01	0.01	0.16	0.17	0.01	0.04	0.05	—	788	788	0.08	0.13	828
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.32	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	77.3	77.3	< 0.005	< 0.005	78.4
Vendor	0.02	0.62	0.29	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	478	478	0.02	0.07	499
Hauling	0.01	0.17	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	55.4	55.4	0.01	0.01	58.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	13.0
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	79.1	79.1	< 0.005	0.01	82.6
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.17	9.17	< 0.005	< 0.005	9.63

3.13. Building Construction I (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	2,406

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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	3.72	4.64	0.01	0.15	—	0.15	0.14	—	0.14	—	854	854	0.03	0.01	857
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.68	0.85	< 0.005	0.03	—	0.03	0.03	—	0.03	—	141	141	0.01	< 0.005	142
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.49	7.41	0.00	0.00	1.35	1.35	0.00	0.32	0.32	—	1,518	1,518	0.07	0.05	1,541
Vendor	0.01	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	157
Hauling	0.00	0.00	0.00	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	0.22	0.19	2.35	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	515	515	0.03	0.02	523
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	53.5	53.5	< 0.005	0.01	55.9
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.43	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	85.3	85.3	< 0.005	< 0.005	86.5

Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.86	8.86	< 0.005	< 0.005	9.25
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction I (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	2,406
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	3.72	4.64	0.01	0.15	—	0.15	0.14	—	0.14	—	854	854	0.03	0.01	857
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.68	0.85	< 0.005	0.03	—	0.03	0.03	—	0.03	—	141	141	0.01	< 0.005	142
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.49	7.41	0.00	0.00	1.35	1.35	0.00	0.32	0.32	—	1,518	1,518	0.07	0.05	1,541

Vendor	0.01	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	157
Hauling	0.00	0.00	0.00	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	0.22	0.19	2.35	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	515	515	0.03	0.02	523
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	53.5	53.5	< 0.005	0.01	55.9
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.43	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	85.3	85.3	< 0.005	< 0.005	86.5
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.86	8.86	< 0.005	< 0.005	9.25
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction II (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	2,405
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	2,405

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	5.92	8.15	0.01	0.21	—	0.21	0.20	—	0.20	—	1,510	1,510	0.06	0.01	1,516
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.08	1.49	< 0.005	0.04	—	0.04	0.04	—	0.04	—	250	250	0.01	< 0.005	251
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.49	8.20	0.00	0.00	1.69	1.69	0.00	0.40	0.40	—	1,828	1,828	0.08	0.07	1,855
Vendor	0.13	4.55	2.15	0.03	0.05	0.96	1.01	0.05	0.27	0.32	—	3,606	3,606	0.14	0.51	3,769
Hauling	0.00	0.00	0.00	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	0.69	0.62	7.20	0.00	0.00	1.69	1.69	0.00	0.40	0.40	—	1,726	1,726	0.09	0.07	1,749
Vendor	0.12	4.71	2.18	0.03	0.05	0.96	1.01	0.05	0.27	0.32	—	3,609	3,609	0.14	0.51	3,763
Hauling	0.00	0.00	0.00	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	0.43	0.39	4.59	0.00	0.00	1.06	1.06	0.00	0.25	0.25	—	1,097	1,097	0.06	0.04	1,113
Vendor	0.08	2.95	1.37	0.02	0.03	0.60	0.64	0.03	0.17	0.20	—	2,273	2,273	0.09	0.32	2,373
Hauling	0.00	0.00	0.00	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	0.08	0.07	0.84	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	182	182	0.01	0.01	184
Vendor	0.01	0.54	0.25	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	376	376	0.01	0.05	393
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction II (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	2,405
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	2,405
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	5.92	8.15	0.01	0.21	—	0.21	0.20	—	0.20	—	1,510	1,510	0.06	0.01	1,516
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.08	1.49	< 0.005	0.04	—	0.04	0.04	—	0.04	—	250	250	0.01	< 0.005	251
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

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.49	8.20	0.00	0.00	1.69	1.69	0.00	0.40	0.40	—	1,828	1,828	0.08	0.07	1,855
Vendor	0.13	4.55	2.15	0.03	0.05	0.96	1.01	0.05	0.27	0.32	—	3,606	3,606	0.14	0.51	3,769
Hauling	0.00	0.00	0.00	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	0.69	0.62	7.20	0.00	0.00	1.69	1.69	0.00	0.40	0.40	—	1,726	1,726	0.09	0.07	1,749
Vendor	0.12	4.71	2.18	0.03	0.05	0.96	1.01	0.05	0.27	0.32	—	3,609	3,609	0.14	0.51	3,763
Hauling	0.00	0.00	0.00	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	0.43	0.39	4.59	0.00	0.00	1.06	1.06	0.00	0.25	0.25	—	1,097	1,097	0.06	0.04	1,113
Vendor	0.08	2.95	1.37	0.02	0.03	0.60	0.64	0.03	0.17	0.20	—	2,273	2,273	0.09	0.32	2,373
Hauling	0.00	0.00	0.00	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	0.08	0.07	0.84	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	182	182	0.01	0.01	184
Vendor	0.01	0.54	0.25	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	376	376	0.01	0.05	393
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.17. Gen-Tie Line (2024) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.68	25.2	25.2	0.04	1.15	—	1.15	1.06	—	1.06	—	4,372	4,372	0.18	0.04	4,387
Dust From Material Movement	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	4.55	4.54	0.01	0.21	—	0.21	0.19	—	0.19	—	787	787	0.03	0.01	790
Dust From Material Movement	—	—	—	—	—	1.28	1.28	—	0.62	0.62	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.83	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	130	130	0.01	< 0.005	131
Dust From Material Movement	—	—	—	—	—	0.23	0.23	—	0.11	0.11	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.30	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	63.9	63.9	< 0.005	< 0.005	64.8
Vendor	0.01	0.22	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	159
Hauling	0.02	0.53	0.31	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	172	172	0.02	0.03	180
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	11.8
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.5	27.5	< 0.005	< 0.005	28.7
Hauling	< 0.005	0.09	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.9	30.9	< 0.005	< 0.005	32.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.92	1.92	< 0.005	< 0.005	1.95
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.56	4.56	< 0.005	< 0.005	4.76
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.11	5.11	< 0.005	< 0.005	5.37

3.18. Gen-Tie Line (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.68	25.2	25.2	0.04	1.15	—	1.15	1.06	—	1.06	—	4,372	4,372	0.18	0.04	4,387
Dust From Material Movement	—	—	—	—	—	1.85	1.85	—	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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	4.55	4.54	0.01	0.21	—	0.21	0.19	—	0.19	—	787	787	0.03	0.01	790
Dust From Material Movement	—	—	—	—	—	0.33	0.33	—	0.16	0.16	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.83	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	130	130	0.01	< 0.005	131
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.30	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	63.9	63.9	< 0.005	< 0.005	64.8
Vendor	0.01	0.22	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	159
Hauling	0.02	0.53	0.31	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	172	172	0.02	0.03	180
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	11.8
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.5	27.5	< 0.005	< 0.005	28.7
Hauling	< 0.005	0.09	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.9	30.9	< 0.005	< 0.005	32.4

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.92	1.92	< 0.005	< 0.005	1.95
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.56	4.56	< 0.005	< 0.005	4.76
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.11	5.11	< 0.005	< 0.005	5.37

3.19. Gen-Tie Line (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.46	22.7	24.2	0.04	0.99	—	0.99	0.91	—	0.91	—	4,373	4,373	0.18	0.04	4,388
Dust From Material Movement	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.46	22.7	24.2	0.04	0.99	—	0.99	0.91	—	0.91	—	4,373	4,373	0.18	0.04	4,388
Dust From Material Movement	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.31	12.1	12.9	0.02	0.53	—	0.53	0.49	—	0.49	—	2,328	2,328	0.09	0.02	2,336
Dust From Material Movement	—	—	—	—	—	3.78	3.78	—	1.82	1.82	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	2.21	2.35	< 0.005	0.10	—	0.10	0.09	—	0.09	—	385	385	0.02	< 0.005	387
Dust From Material Movement	—	—	—	—	—	0.69	0.69	—	0.33	0.33	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.32	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	66.4	66.4	< 0.005	< 0.005	67.4
Vendor	0.01	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	157
Hauling	0.02	0.50	0.30	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	168	168	0.02	0.03	177
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.28	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.7	62.7	< 0.005	< 0.005	63.5
Vendor	0.01	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	157
Hauling	0.02	0.52	0.31	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	168	168	0.02	0.03	177
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.7	33.7	< 0.005	< 0.005	34.2
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	79.9	79.9	< 0.005	0.01	83.5

Hauling	0.01	0.27	0.16	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	89.5	89.5	0.01	0.01	94.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.58	5.58	< 0.005	< 0.005	5.66
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	13.8
Hauling	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	15.6

3.20. Gen-Tie Line (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.46	22.7	24.2	0.04	0.99	—	0.99	0.91	—	0.91	—	4,373	4,373	0.18	0.04	4,388
Dust From Material Movement	—	—	—	—	—	1.85	1.85	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.46	22.7	24.2	0.04	0.99	—	0.99	0.91	—	0.91	—	4,373	4,373	0.18	0.04	4,388
Dust From Material Movement	—	—	—	—	—	1.85	1.85	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.31	12.1	12.9	0.02	0.53	—	0.53	0.49	—	0.49	—	2,328	2,328	0.09	0.02	2,336
Dust From Material Movement	—	—	—	—	—	0.98	0.98	—	0.47	0.47	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	2.21	2.35	< 0.005	0.10	—	0.10	0.09	—	0.09	—	385	385	0.02	< 0.005	387
Dust From Material Movement	—	—	—	—	—	0.18	0.18	—	0.09	0.09	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.32	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	66.4	66.4	< 0.005	< 0.005	67.4
Vendor	0.01	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	157
Hauling	0.02	0.50	0.30	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	168	168	0.02	0.03	177
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.28	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.7	62.7	< 0.005	< 0.005	63.5
Vendor	0.01	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	157
Hauling	0.02	0.52	0.31	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	168	168	0.02	0.03	177
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.7	33.7	< 0.005	< 0.005	34.2
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	79.9	79.9	< 0.005	0.01	83.5

Hauling	0.01	0.27	0.16	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	89.5	89.5	0.01	0.01	94.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.58	5.58	< 0.005	< 0.005	5.66
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	13.8
Hauling	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	15.6

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequeste red	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequeste red	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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 I	Site Preparation	10/1/2024	12/30/2024	5.00	65.0	Phase I Site Prep
Site Preparation II	Site Preparation	6/29/2026	10/16/2026	5.00	80.0	Phase II Site Prep
Grading I	Grading	12/31/2024	3/31/2025	5.00	65.0	Phase I Grading
Grading II	Grading	10/17/2026	2/5/2027	5.00	80.0	Phase II Grading
Building Construction I	Building Construction	4/1/2025	9/29/2025	5.00	130	Phase I Building Construction
Building Construction II	Building Construction	2/6/2027	12/24/2027	5.00	230	Phase II Building Construction
Gen-Tie Line	Linear, Drainage, Utilities, & Sub-Grade	10/1/2024	9/29/2025	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
Site Preparation I	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation I	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Site Preparation II	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation II	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading I	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading I	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading I	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading I	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading I	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading II	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading II	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading II	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading II	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading II	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction I	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction I	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction I	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction I	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction I	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction II	Cranes	Diesel	Average	1.00	7.00	367	0.29

Building Construction II	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction II	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction II	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction II	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Gen-Tie Line	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Gen-Tie Line	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Gen-Tie Line	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Gen-Tie Line	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Gen-Tie Line	Cranes	Diesel	Average	1.00	8.00	367	0.29
Gen-Tie Line	Graders	Diesel	Average	1.00	8.00	148	0.41
Gen-Tie Line	Other General Industrial Equipment	Diesel	Average	1.00	8.00	35.0	0.34
Gen-Tie Line	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Gen-Tie Line	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation I	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation I	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Site Preparation II	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation II	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading I	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading I	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading I	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading I	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading I	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading II	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading II	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading II	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading II	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading II	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction I	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction I	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction I	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction I	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction I	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction II	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction II	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction II	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction II	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction II	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Gen-Tie Line	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Gen-Tie Line	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Gen-Tie Line	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Gen-Tie Line	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Gen-Tie Line	Cranes	Diesel	Average	1.00	8.00	367	0.29

Gen-Tie Line	Graders	Diesel	Average	1.00	8.00	148	0.41
Gen-Tie Line	Other General Industrial Equipment	Diesel	Average	1.00	8.00	35.0	0.34
Gen-Tie Line	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Gen-Tie Line	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation I	—	—	—	—
Site Preparation I	Worker	7.00	12.0	LDA,LDT1,LDT2
Site Preparation I	Vendor	6.00	7.63	HHDT,MHDT
Site Preparation I	Hauling	144	1.50	HHDT
Site Preparation I	Onsite truck	—	—	HHDT
Grading I	—	—	—	—
Grading I	Worker	7.00	12.0	LDA,LDT1,LDT2
Grading I	Vendor	6.00	7.63	HHDT,MHDT
Grading I	Hauling	144	1.50	HHDT
Grading I	Onsite truck	0.00	—	HHDT
Building Construction I	—	—	—	—
Building Construction I	Worker	160	12.0	LDA,LDT1,LDT2
Building Construction I	Vendor	6.00	7.63	HHDT,MHDT
Building Construction I	Hauling	0.00	1.50	HHDT
Building Construction I	Onsite truck	—	—	HHDT
Gen-Tie Line	—	—	—	—
Gen-Tie Line	Worker	7.00	12.0	LDA,LDT1,LDT2
Gen-Tie Line	Vendor	6.00	7.63	HHDT,MHDT

Gen-Tie Line	Hauling	24.0	1.50	HHDT
Gen-Tie Line	Onsite truck	—	—	HHDT
Site Preparation II	—	—	—	—
Site Preparation II	Worker	126	12.0	LDA,LDT1,LDT2
Site Preparation II	Vendor	282	7.63	HHDT,MHDT
Site Preparation II	Hauling	117	1.50	HHDT
Site Preparation II	Onsite truck	0.00	—	HHDT
Grading II	—	—	—	—
Grading II	Worker	126	12.0	LDA,LDT1,LDT2
Grading II	Vendor	282	7.63	HHDT,MHDT
Grading II	Hauling	117	1.50	HHDT
Grading II	Onsite truck	—	—	HHDT
Building Construction II	—	—	—	—
Building Construction II	Worker	200	12.0	LDA,LDT1,LDT2
Building Construction II	Vendor	150	7.63	HHDT,MHDT
Building Construction II	Hauling	0.00	1.50	HHDT
Building Construction II	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation I	—	—	—	—
Site Preparation I	Worker	7.00	12.0	LDA,LDT1,LDT2
Site Preparation I	Vendor	6.00	7.63	HHDT,MHDT
Site Preparation I	Hauling	144	1.50	HHDT
Site Preparation I	Onsite truck	—	—	HHDT
Grading I	—	—	—	—
Grading I	Worker	7.00	12.0	LDA,LDT1,LDT2
Grading I	Vendor	6.00	7.63	HHDT,MHDT

Grading I	Hauling	144	1.50	HHDT
Grading I	Onsite truck	0.00	—	HHDT
Building Construction I	—	—	—	—
Building Construction I	Worker	160	12.0	LDA,LDT1,LDT2
Building Construction I	Vendor	6.00	7.63	HHDT,MHDT
Building Construction I	Hauling	0.00	1.50	HHDT
Building Construction I	Onsite truck	—	—	HHDT
Gen-Tie Line	—	—	—	—
Gen-Tie Line	Worker	7.00	12.0	LDA,LDT1,LDT2
Gen-Tie Line	Vendor	6.00	7.63	HHDT,MHDT
Gen-Tie Line	Hauling	24.0	1.50	HHDT
Gen-Tie Line	Onsite truck	—	—	HHDT
Site Preparation II	—	—	—	—
Site Preparation II	Worker	126	12.0	LDA,LDT1,LDT2
Site Preparation II	Vendor	282	7.63	HHDT,MHDT
Site Preparation II	Hauling	117	1.50	HHDT
Site Preparation II	Onsite truck	0.00	—	HHDT
Grading II	—	—	—	—
Grading II	Worker	126	12.0	LDA,LDT1,LDT2
Grading II	Vendor	282	7.63	HHDT,MHDT
Grading II	Hauling	117	1.50	HHDT
Grading II	Onsite truck	—	—	HHDT
Building Construction II	—	—	—	—
Building Construction II	Worker	200	12.0	LDA,LDT1,LDT2
Building Construction II	Vendor	150	7.63	HHDT,MHDT
Building Construction II	Hauling	0.00	1.50	HHDT
Building Construction II	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)
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation I	0.00	75,000	22.5	0.00	—
Site Preparation II	0.00	75,000	120	0.00	—
Grading I	0.00	75,000	93.0	0.00	—
Grading II	0.00	75,000	240	0.00	—
Gen-Tie Line	0.00	50,000	7.00	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
General Heavy Industry	0.00	0%
User Defined Linear	7.00	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	589	0.03	< 0.005
2025	0.00	589	0.03	< 0.005
2026	0.00	589	0.03	< 0.005
2027	0.00	589	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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	22.4	annual days of extreme heat
Extreme Precipitation	4.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	32.2	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	0	0	0	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	1	1	1	2
Wildfire	1	1	1	2
Flooding	1	1	1	2
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	70.7
AQ-PM	6.76
AQ-DPM	3.27
Drinking Water	78.6
Lead Risk Housing	48.6
Pesticides	10.6
Toxic Releases	29.6
Traffic	4.89
Effect Indicators	—
CleanUp Sites	86.8
Groundwater	35.0
Haz Waste Facilities/Generators	74.7
Impaired Water Bodies	87.0
Solid Waste	98.8
Sensitive Population	—
Asthma	50.1
Cardio-vascular	35.4
Low Birth Weights	34.2
Socioeconomic Factor Indicators	—
Education	69.9
Housing	63.6
Linguistic	60.6
Poverty	72.4
Unemployment	82.3

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	32.19556012
Employed	4.042089054
Median HI	—
Education	—
Bachelor's or higher	38.73989478
High school enrollment	4.042089054
Preschool enrollment	21.96843321
Transportation	—
Auto Access	66.18760426
Active commuting	31.55395868
Social	—
2-parent households	39.62530476
Voting	56.30694213
Neighborhood	—
Alcohol availability	80.55947645
Park access	24.45784679
Retail density	2.694726036
Supermarket access	17.54138329
Tree canopy	20.19761324
Housing	—
Homeownership	62.60746824
Housing habitability	65.00705762
Low-inc homeowner severe housing cost burden	62.44065187
Low-inc renter severe housing cost burden	52.02104453

Uncrowded housing	61.41408957
Health Outcomes	—
Insured adults	34.33850892
Arthritis	0.0
Asthma ER Admissions	57.5
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	13.6
Cognitively Disabled	8.2
Physically Disabled	8.5
Heart Attack ER Admissions	67.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	59.0
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	70.4
SLR Inundation Area	0.0

Children	29.7
Elderly	29.9
English Speaking	70.2
Foreign-born	29.0
Outdoor Workers	13.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	97.7
Traffic Density	3.3
Traffic Access	23.0
Other Indices	—
Hardship	72.0
Other Decision Support	—
2016 Voting	60.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	63.0
Healthy Places Index Score for Project Location (b)	16.0
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	Site specific data
Construction: Construction Phases	Site specific
Construction: Architectural Coatings	Most equipment arrives prepainted
Construction: Dust From Material Movement	Project specific
Construction: Off-Road Equipment	CalEEMod defaults and Project Specifics
Construction: Trips and VMT	Project Specific