

Sage Valley Reserve Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sage Valley Reserve
Construction Start Date	6/1/2027
Operational Year	2028
Lead Agency	Riverside County
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50000
Precipitation (days)	14.0000
Location	33.567147922625296, -116.94181880853333
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5686
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

Data Field	Value
App Version	2022.1.1.46

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	184.000	1000sqft	4.22406	15,864.0	0.00000	—	—	—
Other Asphalt Surfaces	12.9150	1000sqft	0.29649	0.00000	0.00000	—	—	—

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.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.48439	28.0332	29.4418	0.04891	9.06671	5.07157	5,534.69	0.21760	0.05128	0.75354	5,556.15
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Unmit.	1.05664	9.50105	13.2985	0.02399	0.44708	0.33738	2,556.92	0.10015	0.03412	0.01235	2,569.60
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.76950	3.76626	5.09524	0.00901	0.35519	0.22163	970.565	0.03803	0.01240	0.07660	975.288
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14043	0.68734	0.92988	0.00164	0.06482	0.04045	160.688	0.00630	0.00205	0.01268	161.470

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	3.12192	28.0332	29.4418	0.04891	9.06671	5.07157	5,534.69	0.21760	0.05128	0.73589	5,556.15
2028	8.48439	9.02440	13.3724	0.02399	0.47183	0.30395	2,561.06	0.09949	0.03412	0.75354	2,574.14
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	1.05664	9.50105	13.2985	0.02398	0.44708	0.33738	2,556.92	0.10015	0.03412	0.01235	2,569.60
2028	1.01732	9.03101	13.2725	0.02399	0.41074	0.30395	2,554.02	0.09964	0.03412	0.01114	2,566.69
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.41994	3.76626	5.09524	0.00901	0.35519	0.22163	970.565	0.03803	0.01240	0.07660	975.288

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Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
2028	0.76950	3.12494	4.64989	0.00814	0.15147	0.10734	876.195	0.03396	0.01164	0.07437	880.588
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.07664	0.68734	0.92988	0.00164	0.06482	0.04045	160.688	0.00630	0.00205	0.01268	161.470
2028	0.14043	0.57030	0.84861	0.00149	0.02764	0.01959	145.064	0.00562	0.00193	0.01231	145.791

2.2.2. Onsite 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	3.05170	27.9724	28.2794	0.04891	8.83797	5.01795	5,297.82	0.21490	0.04298	0.00000	5,316.00
2028	8.47922	8.92495	12.9352	0.02340	0.30024	0.27622	2,397.46	0.09725	0.01945	0.00000	2,405.68
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	1.02988	9.39093	12.9379	0.02340	0.33657	0.30965	2,397.08	0.09724	0.01945	0.00000	2,405.30
2028	0.99143	8.92495	12.9352	0.02340	0.30024	0.27622	2,397.46	0.09725	0.01945	0.00000	2,405.68
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.40912	3.72742	4.94362	0.00882	0.31245	0.21103	911.459	0.03697	0.00739	0.00000	914.587
2028	0.75770	3.08792	4.48868	0.00796	0.10397	0.09565	814.462	0.03304	0.00661	0.00000	817.257
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.07466	0.68025	0.90221	0.00161	0.05702	0.03851	150.902	0.00612	0.00122	0.00000	151.420
2028	0.13828	0.56354	0.81918	0.00145	0.01897	0.01746	134.843	0.00547	0.00109	0.00000	135.306

2.2.3. Offsite 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	0.07022	0.10350	1.16244	0.00058	0.22874	0.05362	236.876	0.00283	0.01467	0.73589	240.151
2028	0.07760	0.09945	1.23812	0.00058	0.26142	0.06128	265.660	0.00309	0.01467	0.75354	269.316
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	0.02677	0.11011	0.36051	0.00058	0.11051	0.02773	159.841	0.00292	0.01467	0.01235	164.297
2028	0.02589	0.10606	0.33727	0.00058	0.11051	0.02773	156.566	0.00239	0.01467	0.01114	161.008
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.01082	0.03884	0.15162	0.00019	0.04274	0.01060	59.1066	0.00106	0.00501	0.07660	60.7015
2028	0.01180	0.03703	0.16121	0.00018	0.04750	0.01169	61.7334	0.00092	0.00503	0.07437	63.3311
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.00197	0.00709	0.02767	0.00003	0.00780	0.00193	9.78578	0.00018	0.00083	0.01268	10.0498
2028	0.00215	0.00676	0.02942	0.00003	0.00867	0.00213	10.2207	0.00015	0.00083	0.01231	10.4852

2.3. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

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Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Unmit.	0.90781	0.79343	6.98024	0.01889	1.65570	0.43935	2,884.33	20.7625	0.27463	9.40474	3,494.64
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.77486	0.83224	5.10053	0.01775	1.65448	0.43842	2,769.85	20.7629	0.27685	4.26625	3,375.69
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.85048	0.85026	5.77207	0.01793	1.64070	0.43540	2,787.93	20.7631	0.27758	6.40729	3,396.13
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15521	0.15517	1.05340	0.00327	0.29943	0.07946	461.574	3.43757	0.04596	1.06080	562.269

2.4. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.40262	0.60461	6.13655	0.01775	1.64056	0.42451	1,815.21	0.05277	0.07072	5.27527	1,842.88
Area	0.49512	0.00581	0.68996	0.00004	0.00123	0.00093	2.83722	0.00012	0.00002	—	2.84745
Energy	0.01007	0.18301	0.15373	0.00110	0.01391	0.01391	439.619	0.03305	0.00207	—	441.064
Water	—	—	—	—	—	—	503.700	8.38675	0.20182	—	773.510
Waste	—	—	—	—	—	—	122.964	12.2898	0.00000	—	430.210
Refrig.	—	—	—	—	—	—	—	—	—	4.12947	4.12947
Total	0.90781	0.79343	6.98024	0.01889	1.65570	0.43935	2,884.33	20.7625	0.27463	9.40474	3,494.64

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Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.38300	0.64923	4.94680	0.01665	1.64057	0.42451	1,703.57	0.05324	0.07295	0.13678	1,726.77
Area	0.38179	—	—	—	—	—	—	—	—	—	—
Energy	0.01007	0.18301	0.15373	0.00110	0.01391	0.01391	439.619	0.03305	0.00207	—	441.064
Water	—	—	—	—	—	—	503.700	8.38675	0.20182	—	773.510
Waste	—	—	—	—	—	—	122.964	12.2898	0.00000	—	430.210
Refrig.	—	—	—	—	—	—	—	—	—	4.12947	4.12947
Total	0.77486	0.83224	5.10053	0.01775	1.65448	0.43842	2,769.85	20.7629	0.27685	4.26625	3,375.69
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.38100	0.66327	5.14577	0.01681	1.62595	0.42086	1,719.71	0.05337	0.07366	2.27782	1,745.27
Area	0.45942	0.00398	0.47257	0.00003	0.00084	0.00063	1.94330	0.00008	0.00002	—	1.95031
Energy	0.01007	0.18301	0.15373	0.00110	0.01391	0.01391	439.619	0.03305	0.00207	—	441.064
Water	—	—	—	—	—	—	503.700	8.38675	0.20182	—	773.510
Waste	—	—	—	—	—	—	122.964	12.2898	0.00000	—	430.210
Refrig.	—	—	—	—	—	—	—	—	—	4.12947	4.12947
Total	0.85048	0.85026	5.77207	0.01793	1.64070	0.43540	2,787.93	20.7631	0.27758	6.40729	3,396.13
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06953	0.12105	0.93910	0.00307	0.29674	0.07681	284.717	0.00884	0.01220	0.37712	288.949
Area	0.08384	0.00073	0.08624	0.00001	0.00015	0.00012	0.32174	0.00001	< 0.000005	—	0.32290
Energy	0.00184	0.03340	0.02806	0.00020	0.00254	0.00254	72.7840	0.00547	0.00034	—	73.0231
Water	—	—	—	—	—	—	83.3932	1.38852	0.03341	—	128.063

Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Waste	—	—	—	—	—	—	20.3581	2.03472	0.00000	—	71.2262
Refrig.	—	—	—	—	—	—	—	—	—	0.68368	0.68368
Total	0.15521	0.15517	1.05340	0.00327	0.29943	0.07946	461.574	3.43757	0.04596	1.06080	562.269

3. Construction Emissions Details

3.1. Site Preparation (2027)

3.1.1. Onsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.05170	27.9724	28.2794	0.04891	1.17173	1.07799	5,297.82	0.21490	0.04298	—	5,316.00
Dust From Material Movement	—	—	—	—	7.66623	3.93995	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04180	0.38318	0.38739	0.00067	0.01605	0.01477	72.5729	0.00294	0.00059	—	72.8219

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	0.10502	0.05397	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00763	0.06993	0.07070	0.00012	0.00293	0.00269	12.0153	0.00049	0.00010	—	12.0565
Dust From Material Movement	—	—	—	—	0.01917	0.00985	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07022	0.06076	1.16244	0.00000	0.22874	0.05362	236.876	0.00270	0.00829	0.73589	240.151
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00091	0.00104	0.01263	0.00000	0.00311	0.00073	3.02209	0.00004	0.00011	0.00435	3.06135
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00017	0.00019	0.00231	0.00000	0.00057	0.00013	0.50034	0.00001	0.00002	0.00072	0.50684
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2. Grading (2027)

3.2.1. Onsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.58640	14.2321	17.2743	0.02733	0.59767	0.54986	2,960.07	0.12007	0.02401	—	2,970.23
Dust From Material Movement	—	—	—	—	3.17580	1.38031	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03477	0.31194	0.37862	0.00060	0.01310	0.01205	64.8783	0.00263	0.00053	—	65.1009

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	0.06961	0.03025	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00635	0.05693	0.06910	0.00011	0.00239	0.00220	10.7413	0.00044	0.00009	—	10.7782
Dust From Material Movement	—	—	—	—	0.01270	0.00552	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06019	0.05208	0.99638	0.00000	0.19606	0.04596	203.036	0.00231	0.00711	0.63077	205.844
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00125	0.00142	0.01733	0.00000	0.00426	0.00100	4.14458	0.00006	0.00016	0.00596	4.19843
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00023	0.00026	0.00316	0.00000	0.00078	0.00018	0.68618	0.00001	0.00003	0.00099	0.69510
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Building Construction (2027)

3.3.1. Onsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02988	9.39093	12.9379	0.02340	0.33657	0.30965	2,397.08	0.09724	0.01945	—	2,405.30
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02988	9.39093	12.9379	0.02340	0.33657	0.30965	2,397.08	0.09724	0.01945	—	2,405.30
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33254	3.03230	4.17762	0.00755	0.10868	0.09998	774.007	0.03140	0.00628	—	776.664

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06069	0.55339	0.76241	0.00138	0.01983	0.01825	128.146	0.00520	0.00104	—	128.586
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02673	0.02314	0.44258	0.00000	0.08709	0.02041	90.1872	0.00103	0.00316	0.28018	91.4342
Vendor	0.00162	0.08037	0.02522	0.00058	0.02342	0.00732	76.8369	0.00180	0.01151	0.19565	80.5076
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02527	0.02615	0.33455	0.00000	0.08709	0.02041	82.9455	0.00118	0.00316	0.00727	83.9233
Vendor	0.00150	0.08397	0.02597	0.00058	0.02342	0.00732	76.8954	0.00174	0.01151	0.00508	80.3741
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00816	0.00932	0.11338	0.00000	0.02787	0.00653	27.1217	0.00038	0.00102	0.03902	27.4741
Vendor	0.00050	0.02706	0.00827	0.00019	0.00751	0.00235	24.8183	0.00058	0.00372	0.02727	25.9677
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00149	0.00170	0.02069	0.00000	0.00509	0.00119	4.49031	0.00006	0.00017	0.00646	4.54865
Vendor	0.00009	0.00494	0.00151	0.00003	0.00137	0.00043	4.10895	0.00010	0.00062	0.00451	4.29924
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction (2028)

3.4.1. Onsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99143	8.92495	12.9352	0.02340	0.30024	0.27622	2,397.46	0.09725	0.01945	—	2,405.68
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99143	8.92495	12.9352	0.02340	0.30024	0.27622	2,397.46	0.09725	0.01945	—	2,405.68
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30655	2.75957	3.99955	0.00724	0.09283	0.08541	741.288	0.03007	0.00601	—	743.832
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05595	0.50362	0.72992	0.00132	0.01694	0.01559	122.729	0.00498	0.00100	—	123.150
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02585	0.02299	0.41247	0.00000	0.08709	0.02041	88.5031	0.00103	0.00316	0.25104	89.7210
Vendor	0.00162	0.07646	0.02464	0.00058	0.02342	0.00732	75.0973	0.00122	0.01151	0.17809	78.7358
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02438	0.02600	0.31200	0.00000	0.08709	0.02041	81.4096	0.00118	0.00316	0.00653	82.3867
Vendor	0.00150	0.08006	0.02527	0.00058	0.02342	0.00732	75.1568	0.00122	0.01151	0.00461	78.6218
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00749	0.00804	0.10160	0.00000	0.02669	0.00625	25.4895	0.00036	0.00098	0.03352	25.8231
Vendor	0.00048	0.02488	0.00772	0.00018	0.00719	0.00225	23.2277	0.00038	0.00356	0.02373	24.3214
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Worker	0.00137	0.00147	0.01854	0.00000	0.00487	0.00114	4.22008	0.00006	0.00016	0.00555	4.27531
Vendor	0.00009	0.00454	0.00141	0.00003	0.00131	0.00041	3.84560	0.00006	0.00059	0.00393	4.02668
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Paving (2028)

3.5.1. Onsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62588	5.84990	8.80025	0.01296	0.21041	0.19358	1,350.28	0.05477	0.01095	—	1,354.92
Paving	0.04316	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03087	0.28849	0.43398	0.00064	0.01038	0.00955	66.5892	0.00270	0.00054	—	66.8177
Paving	0.00213	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.00563	0.05265	0.07920	0.00012	0.00189	0.00174	11.0246	0.00045	0.00009	—	11.0624
Paving	0.00039	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07760	0.06900	1.23812	0.00000	0.26142	0.06128	265.660	0.00309	0.00948	0.75354	269.316
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00359	0.00385	0.04864	0.00000	0.01278	0.00299	12.2032	0.00017	0.00047	0.01605	12.3629
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00065	0.00070	0.00888	0.00000	0.00233	0.00055	2.02037	0.00003	0.00008	0.00266	2.04682
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Architectural Coating (2028)

3.6.1. Onsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10731	0.80814	1.11833	0.00173	0.01536	0.01413	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	8.37190	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00529	0.03985	0.05515	0.00009	0.00076	0.00070	6.58440	0.00027	0.00005	—	6.60700
Architectural Coatings	0.41286	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00097	0.00727	0.01006	0.00002	0.00014	0.00013	1.09012	0.00004	0.00001	—	1.09386
Architectural Coatings	0.07535	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - 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	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00517	0.00460	0.08249	0.00000	0.01742	0.00408	17.7006	0.00021	0.00063	0.05021	17.9442
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00024	0.00026	0.00324	0.00000	0.00085	0.00020	0.81308	0.00001	0.00003	0.00107	0.82372
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00004	0.00005	0.00059	0.00000	0.00016	0.00004	0.13462	< 0.000005	0.00001	0.00018	0.13638
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.40262	0.60461	6.13655	0.01775	1.64056	0.42451	1,815.21	0.05277	0.07072	5.27527	1,842.88
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.40262	0.60461	6.13655	0.01775	1.64056	0.42451	1,815.21	0.05277	0.07072	5.27527	1,842.88
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.38300	0.64923	4.94680	0.01665	1.64057	0.42451	1,703.57	0.05324	0.07295	0.13678	1,726.77
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.38300	0.64923	4.94680	0.01665	1.64057	0.42451	1,703.57	0.05324	0.07295	0.13678	1,726.77
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.06953	0.12105	0.93910	0.00307	0.29674	0.07681	284.717	0.00884	0.01220	0.37712	288.949
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.06953	0.12105	0.93910	0.00307	0.29674	0.07681	284.717	0.00884	0.01220	0.37712	288.949

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	221.252	0.01372	0.00166	—	222.091
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	221.252	0.01372	0.00166	—	222.091
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	221.252	0.01372	0.00166	—	222.091
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	221.252	0.01372	0.00166	—	222.091
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	36.6308	0.00227	0.00028	—	36.7697
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	36.6308	0.00227	0.00028	—	36.7697

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.01007	0.18301	0.15373	0.00110	0.01391	0.01391	218.367	0.01933	0.00041	—	218.973
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.01007	0.18301	0.15373	0.00110	0.01391	0.01391	218.367	0.01933	0.00041	—	218.973
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.01007	0.18301	0.15373	0.00110	0.01391	0.01391	218.367	0.01933	0.00041	—	218.973
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.01007	0.18301	0.15373	0.00110	0.01391	0.01391	218.367	0.01933	0.00041	—	218.973
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00184	0.03340	0.02806	0.00020	0.00254	0.00254	36.1532	0.00320	0.00007	—	36.2534
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00184	0.03340	0.02806	0.00020	0.00254	0.00254	36.1532	0.00320	0.00007	—	36.2534

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.34051	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04129	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11333	0.00581	0.68996	0.00004	0.00123	0.00093	2.83722	0.00012	0.00002	—	2.84745
Total	0.49512	0.00581	0.68996	0.00004	0.00123	0.00093	2.83722	0.00012	0.00002	—	2.84745
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.34051	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04129	—	—	—	—	—	—	—	—	—	—
Total	0.38179	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06214	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00753	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01417	0.00073	0.08624	0.00001	0.00015	0.00012	0.32174	0.00001	< 0.000005	—	0.32290
Total	0.08384	0.00073	0.08624	0.00001	0.00015	0.00012	0.32174	0.00001	< 0.000005	—	0.32290

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	503.700	8.38675	0.20182	—	773.510
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	503.700	8.38675	0.20182	—	773.510
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	503.700	8.38675	0.20182	—	773.510
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	503.700	8.38675	0.20182	—	773.510
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	83.3932	1.38852	0.03341	—	128.063
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	83.3932	1.38852	0.03341	—	128.063

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	122.964	12.2898	0.00000	—	430.210
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	122.964	12.2898	0.00000	—	430.210
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	122.964	12.2898	0.00000	—	430.210
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	122.964	12.2898	0.00000	—	430.210
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	20.3581	2.03472	0.00000	—	71.2262
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	20.3581	2.03472	0.00000	—	71.2262

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	4.12947	4.12947
Total	—	—	—	—	—	—	—	—	—	4.12947	4.12947
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	4.12947	4.12947
Total	—	—	—	—	—	—	—	—	—	4.12947	4.12947
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	0.68368	0.68368
Total	—	—	—	—	—	—	—	—	—	0.68368	0.68368

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	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	ROG	NOx	CO	SO2	PM10T	PM2.5T	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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Vegetation	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
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	PM10T	PM2.5T	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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—

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Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—

Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
—	—	—	—	—	—	—	—	—	—	—	—

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	6/30/2027	7/7/2027	5.00000	5.00000	—
Grading	Grading	7/8/2027	7/19/2027	5.00000	8.00000	—
Building Construction	Building Construction	7/20/2027	6/6/2028	5.00000	230.000	—
Paving	Paving	6/7/2028	7/2/2028	5.00000	18.0000	—
Architectural Coating	Architectural Coating	7/3/2028	7/28/2028	5.00000	18.0000	—

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	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/ Backhoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	1.000000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000

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Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Tractors/Loaders/ Backhoes	Diesel	Average	3.00000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/ Backhoes	Diesel	Average	3.00000	7.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Paving	Cement and Mortar Mixers	Diesel	Average	2.00000	6.00000	10.00000	0.56000
Paving	Pavers	Diesel	Average	1.000000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	6.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	6.00000	36.0000	0.38000
Paving	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	Worker	17.5000	18.5000	LDA,LDT1,LDT2

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Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	15.0000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	6.66288	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	2.60011	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	20.0000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	1.33258	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00000	0.00000	23,796.0	7,932.00	774.900

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	—	—	7.50000	0.00000	0.00000
Grading	—	—	8.00000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.29649

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	General Heavy Industry	0.00000	0%

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Other Asphalt Surfaces	0.29649	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	531.983	0.03300	0.00400
2028	0.00000	531.983	0.03300	0.00400

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	80.9600	80.9600	80.9600	29,550.4	2,300.25	2,300.25	2,300.25	839,589
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
General Heavy Industry	Wood Fireplaces	0	0
General Heavy Industry	Gas Fireplaces	0	0

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
General Heavy Industry	Propane Fireplaces	0	0
General Heavy Industry	Electric Fireplaces	0	0
General Heavy Industry	No Fireplaces	0	0
General Heavy Industry	Conventional Wood Stoves	0	0
General Heavy Industry	Catalytic Wood Stoves	0	0
General Heavy Industry	Non-Catalytic Wood Stoves	0	0
General Heavy Industry	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0.00000	0.00000	23,796.0	7,932.00	774.900

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	151,804	531.983	0.0330	0.0040	681,364
Other Asphalt Surfaces	0.00000	531.983	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	42,550,000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	228.160	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	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	2,088.00	0.30000	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	28.8200	annual days of extreme heat
Extreme Precipitation	4.15000	annual days with precipitation above 20 mm

Climate Hazard	Result for Project Location	Unit
Sea Level Rise	—	meters of inundation depth
Wildfire	28.7000	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	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	78.2576
AQ-PM	11.3255
AQ-DPM	9.13503
Drinking Water	36.4306
Lead Risk Housing	8.85948
Pesticides	55.3793
Toxic Releases	7.83946
Traffic	4.38750
Effect Indicators	—
CleanUp Sites	68.9436
Groundwater	22.1152
Haz Waste Facilities/Generators	0.00000
Impaired Water Bodies	97.5220
Solid Waste	83.2761
Sensitive Population	—
Asthma	29.1251
Cardio-vascular	72.0837
Low Birth Weights	91.2753
Socioeconomic Factor Indicators	—

Indicator	Result for Project Census Tract
Education	47.7727
Housing	63.9670
Linguistic	21.4237
Poverty	39.9749
Unemployment	92.6471

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	56.73039908
Employed	16.43782882
Median HI	59.32246888
Education	—
Bachelor's or higher	57.08969588
High school enrollment	12.61388426
Preschool enrollment	1.873476197
Transportation	—
Auto Access	74.57975106
Active commuting	6.441678429
Social	—

Indicator	Result for Project Census Tract
2-parent households	48.33825228
Voting	79.66123444
Neighborhood	—
Alcohol availability	90.91492365
Park access	9.547029385
Retail density	3.567303991
Supermarket access	6.159373797
Tree canopy	17.61837547
Housing	—
Homeownership	85.12767869
Housing habitability	46.42627999
Low-inc homeowner severe housing cost burden	40.0872578
Low-inc renter severe housing cost burden	30.80970101
Uncrowded housing	58.11625818
Health Outcomes	—
Insured adults	49.96791993
Arthritis	0.0
Asthma ER Admissions	81.6
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0

Indicator	Result for Project Census Tract
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	43.6
Cognitively Disabled	90.0
Physically Disabled	71.5
Heart Attack ER Admissions	40.2
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	44.9
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	58.9
SLR Inundation Area	0.0
Children	72.4

Indicator	Result for Project Census Tract
Elderly	12.0
English Speaking	92.7
Foreign-born	3.8
Outdoor Workers	51.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	99.2
Traffic Density	4.0
Traffic Access	23.0
Other Indices	—
Hardship	38.6
Other Decision Support	—
2016 Voting	79.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	52.0000
Healthy Places Index Score for Project Location (b)	37.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Per Site Plan
Construction: Construction Phases	There would be no demolition of existing structures.
Operations: Vehicle Data	Per Trip Generation prepared for an earlier version of the Site Plan (more building coverage than currently proposed)

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Building Area	sq. ft	184,000	15,864.0

Model Parameter	Units	Default Value	New Value
Landscape Area	sq. ft	—	0.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
General Heavy Industry	Weekday Trip Rate	size/day	3.93000	0.44000
General Heavy Industry	Saturday Trip Rate	size/day	6.42000	0.44000
General Heavy Industry	Sunday Trip Rate	size/day	5.09000	0.44000