



DOUGLASKIM+ASSOCIATES,LLC

GREENHOUSE GAS EMISSIONS OVERVIEW

12681 Jefferson Boulevard (Future) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	12681 Jefferson Boulevard (Future)
Construction Start Date	9/18/2027
Operational Year	2028
Lead Agency	City of Los Angeles
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	8.20
Location	12681 Jefferson Blvd, Los Angeles, CA 90066, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4429
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

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
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Strip Mall	3.96	1000sqft	0.10	3,959	500	—	—	—
Parking Lot	78.0	Space	0.10	0.00	500	—	—	—
Industrial Park	78.4	1000sqft	0.90	78,365	1,000	—	—	—

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.	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	—	4,028	4,028	0.17	0.24	3.34	4,066
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	—	7,959	7,959	0.37	0.90	0.31	8,237
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	—	1,873	1,873	0.07	0.07	0.61	1,890
Annual (Max)	—	—	—	—	—	—	—
Unmit.	—	310	310	0.01	0.01	0.10	313

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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2027	—	3,978	3,978	0.17	0.24	3.34	4,058
2028	—	4,028	4,028	0.14	0.11	3.01	4,066

Daily - Winter (Max)	—	—	—	—	—	—	—
2027	—	7,959	7,959	0.37	0.90	0.31	8,237
2028	—	3,774	3,774	0.13	0.10	0.07	3,807
Average Daily	—	—	—	—	—	—	—
2027	—	889	889	0.04	0.07	0.44	911
2028	—	1,873	1,873	0.07	0.05	0.61	1,890
Annual	—	—	—	—	—	—	—
2027	—	147	147	0.01	0.01	0.07	151
2028	—	310	310	0.01	0.01	0.10	313

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	89.9	5,499	5,589	9.42	0.20	26.8	5,912
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	89.9	5,390	5,480	9.43	0.21	20.6	5,798
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	89.9	5,426	5,515	9.43	0.21	23.2	5,837
Annual (Max)	—	—	—	—	—	—	—
Unmit.	14.9	898	913	1.56	0.03	3.83	966

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	—	2,293	2,293	0.11	0.09	6.33	2,330

Area	—	14.7	14.7	< 0.005	< 0.005	—	14.8
Energy	—	2,954	2,954	0.22	0.03	—	2,967
Water	35.3	237	273	3.64	0.09	—	390
Waste	54.6	0.00	54.6	5.46	0.00	—	191
Refrig.	—	—	—	—	—	20.4	20.4
Total	89.9	5,499	5,589	9.42	0.20	26.8	5,912
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	—	2,199	2,199	0.11	0.10	0.16	2,230
Area	—	—	—	—	—	—	—
Energy	—	2,954	2,954	0.22	0.03	—	2,967
Water	35.3	237	273	3.64	0.09	—	390
Waste	54.6	0.00	54.6	5.46	0.00	—	191
Refrig.	—	—	—	—	—	20.4	20.4
Total	89.9	5,390	5,480	9.43	0.21	20.6	5,798
Average Daily	—	—	—	—	—	—	—
Mobile	—	2,224	2,224	0.11	0.10	2.74	2,258
Area	—	10.1	10.1	< 0.005	< 0.005	—	10.1
Energy	—	2,954	2,954	0.22	0.03	—	2,967
Water	35.3	237	273	3.64	0.09	—	390
Waste	54.6	0.00	54.6	5.46	0.00	—	191
Refrig.	—	—	—	—	—	20.4	20.4
Total	89.9	5,426	5,515	9.43	0.21	23.2	5,837
Annual	—	—	—	—	—	—	—
Mobile	—	368	368	0.02	0.02	0.45	374
Area	—	1.67	1.67	< 0.005	< 0.005	—	1.68
Energy	—	489	489	0.04	< 0.005	—	491
Water	5.84	39.3	45.1	0.60	0.01	—	64.6

Waste	9.04	0.00	9.04	0.90	0.00	—	31.6
Refrig.	—	—	—	—	—	3.38	3.38
Total	14.9	898	913	1.56	0.03	3.83	966

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	68.3	68.3	< 0.005	< 0.005	—	68.6
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	11.3	11.3	< 0.005	< 0.005	—	11.4
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	166	166	0.01	0.01	0.52	169
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	1,319	1,319	0.06	0.21	2.82	1,387
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	157	157	< 0.005	0.01	0.01	159
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	1,319	1,319	0.06	0.21	0.07	1,385
Average Daily	—	—	—	—	—	—	—
Worker	—	4.38	4.38	< 0.005	< 0.005	0.01	4.43
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	36.1	36.1	< 0.005	0.01	0.03	38.0
Annual	—	—	—	—	—	—	—
Worker	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.73
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	5.98	5.98	< 0.005	< 0.005	0.01	6.28

3.3. Site Preparation (2027) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,065	2,065	0.08	0.02	—	2,072
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	67.9	67.9	< 0.005	< 0.005	—	68.1
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	11.2	11.2	< 0.005	< 0.005	—	11.3
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	94.5	94.5	< 0.005	< 0.005	0.01	95.6
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	3.15	3.15	< 0.005	< 0.005	< 0.005	3.19
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.53
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2027) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,455	2,455	0.10	0.02	—	2,464
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	141	141	0.01	< 0.005	—	142
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	23.4	23.4	< 0.005	< 0.005	—	23.5
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	126	126	< 0.005	< 0.005	0.01	127
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	5,377	5,377	0.27	0.88	0.30	5,645
Average Daily	—	—	—	—	—	—	—
Worker	—	7.36	7.36	< 0.005	< 0.005	0.01	7.45
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	309	309	0.02	0.05	0.28	325
Annual	—	—	—	—	—	—	—
Worker	—	1.22	1.22	< 0.005	< 0.005	< 0.005	1.23

Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	51.2	51.2	< 0.005	0.01	0.05	53.8

3.7. Building Construction (2027) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	155	155	0.01	< 0.005	—	156
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	25.7	25.7	< 0.005	< 0.005	—	25.8
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	431	431	0.01	0.02	0.04	436
Vendor	—	413	413	0.02	0.06	0.03	430
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	37.6	37.6	< 0.005	< 0.005	0.05	38.1
Vendor	—	35.5	35.5	< 0.005	< 0.005	0.04	37.1
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—
Worker	—	6.23	6.23	< 0.005	< 0.005	0.01	6.31
Vendor	—	5.88	5.88	< 0.005	< 0.005	0.01	6.14
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	927	927	0.04	0.01	—	930
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	153	153	0.01	< 0.005	—	154
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	446	446	< 0.005	0.02	1.27	452
Vendor	—	403	403	0.01	0.06	1.02	421
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—

Worker	—	423	423	0.01	0.02	0.03	428
Vendor	—	403	403	0.01	0.06	0.03	421
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	221	221	< 0.005	0.01	0.28	224
Vendor	—	207	207	0.01	0.03	0.23	217
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	36.6	36.6	< 0.005	< 0.005	0.05	37.0
Vendor	—	34.3	34.3	< 0.005	< 0.005	0.04	35.9
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2028) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	991	991	0.04	0.01	—	995
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	991	991	0.04	0.01	—	995
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	416	416	0.02	< 0.005	—	417
Paving	—	—	—	—	—	—	—

Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	68.8	68.8	< 0.005	< 0.005	—	69.0
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	163	163	< 0.005	0.01	0.47	165
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	155	155	< 0.005	0.01	0.01	157
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	65.8	65.8	< 0.005	< 0.005	0.08	66.6
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	10.9	10.9	< 0.005	< 0.005	0.01	11.0
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2028) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	16.1	16.1	< 0.005	< 0.005	—	16.2
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	2.66	2.66	< 0.005	< 0.005	—	2.67
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	89.2	89.2	< 0.005	< 0.005	0.25	90.5
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	—	10.3	10.3	< 0.005	< 0.005	0.01	10.5
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	1.71	1.71	< 0.005	< 0.005	< 0.005	1.74
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2027) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	207	207	0.01	< 0.005	—	208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	17.9	17.9	< 0.005	< 0.005	—	17.9
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	2.96	2.96	< 0.005	< 0.005	—	2.97
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	63.0	63.0	< 0.005	< 0.005	0.01	63.7
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	5.50	5.50	< 0.005	< 0.005	0.01	5.57
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.92
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
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3.17. Trenching (2028) - Unmitigated

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

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	208	208	0.01	< 0.005	—	208
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	7.31	7.31	< 0.005	< 0.005	—	7.34
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	1.21	1.21	< 0.005	< 0.005	—	1.21
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	61.9	61.9	< 0.005	< 0.005	< 0.005	62.6
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.24
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—

Worker	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.37
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Daily, Summer (Max)	—	—	—	—	—	—	—
Strip Mall	—	74.6	74.6	0.01	< 0.005	—	74.9
Parking Lot	—	7.22	7.22	< 0.005	< 0.005	—	7.25
Industrial Park	—	2,361	2,361	0.17	0.02	—	2,372
Total	—	2,443	2,443	0.17	0.02	—	2,454
Daily, Winter (Max)	—	—	—	—	—	—	—
Strip Mall	—	74.6	74.6	0.01	< 0.005	—	74.9
Parking Lot	—	7.22	7.22	< 0.005	< 0.005	—	7.25
Industrial Park	—	2,361	2,361	0.17	0.02	—	2,372
Total	—	2,443	2,443	0.17	0.02	—	2,454
Annual	—	—	—	—	—	—	—
Strip Mall	—	12.3	12.3	< 0.005	< 0.005	—	12.4
Parking Lot	—	1.19	1.19	< 0.005	< 0.005	—	1.20

Industrial Park	—	391	391	0.03	< 0.005	—	393
Total	—	404	404	0.03	< 0.005	—	406

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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Strip Mall	—	6.25	6.25	< 0.005	< 0.005	—	6.27
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	505	505	0.04	< 0.005	—	506
Total	—	511	511	0.05	< 0.005	—	512
Daily, Winter (Max)	—	—	—	—	—	—	—
Strip Mall	—	6.25	6.25	< 0.005	< 0.005	—	6.27
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	505	505	0.04	< 0.005	—	506
Total	—	511	511	0.05	< 0.005	—	512
Annual	—	—	—	—	—	—	—
Strip Mall	—	1.03	1.03	< 0.005	< 0.005	—	1.04
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	83.5	83.5	0.01	< 0.005	—	83.8
Total	—	84.6	84.6	0.01	< 0.005	—	84.8

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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	14.7	14.7	< 0.005	< 0.005	—	14.8
Total	—	14.7	14.7	< 0.005	< 0.005	—	14.8
Daily, Winter (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	1.67	1.67	< 0.005	< 0.005	—	1.68
Total	—	1.67	1.67	< 0.005	< 0.005	—	1.68

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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Strip Mall	0.56	3.85	4.41	0.06	< 0.005	—	6.28
Parking Lot	0.00	0.07	0.07	< 0.005	< 0.005	—	0.07
Industrial Park	34.7	233	268	3.58	0.09	—	384
Total	35.3	237	273	3.64	0.09	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—
Strip Mall	0.56	3.85	4.41	0.06	< 0.005	—	6.28

Parking Lot	0.00	0.07	0.07	< 0.005	< 0.005	—	0.07
Industrial Park	34.7	233	268	3.58	0.09	—	384
Total	35.3	237	273	3.64	0.09	—	390
Annual	—	—	—	—	—	—	—
Strip Mall	0.09	0.64	0.73	0.01	< 0.005	—	1.04
Parking Lot	0.00	0.01	0.01	< 0.005	< 0.005	—	0.01
Industrial Park	5.75	38.7	44.4	0.59	0.01	—	63.5
Total	5.84	39.3	45.1	0.60	0.01	—	64.6

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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Strip Mall	2.24	0.00	2.24	0.22	0.00	—	7.84
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	52.4	0.00	52.4	5.23	0.00	—	183
Total	54.6	0.00	54.6	5.46	0.00	—	191
Daily, Winter (Max)	—	—	—	—	—	—	—
Strip Mall	2.24	0.00	2.24	0.22	0.00	—	7.84
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	52.4	0.00	52.4	5.23	0.00	—	183
Total	54.6	0.00	54.6	5.46	0.00	—	191
Annual	—	—	—	—	—	—	—
Strip Mall	0.37	0.00	0.37	0.04	0.00	—	1.30
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00

Industrial Park	8.67	0.00	8.67	0.87	0.00	—	30.3
Total	9.04	0.00	9.04	0.90	0.00	—	31.6

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	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Daily, Summer (Max)	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	0.02	0.02
Industrial Park	—	—	—	—	—	20.4	20.4
Total	—	—	—	—	—	20.4	20.4
Daily, Winter (Max)	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	0.02	0.02
Industrial Park	—	—	—	—	—	20.4	20.4
Total	—	—	—	—	—	20.4	20.4
Annual	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	< 0.005	< 0.005
Industrial Park	—	—	—	—	—	3.38	3.38
Total	—	—	—	—	—	3.38	3.38

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	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
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	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

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

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

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	9/18/2027	10/2/2027	5.00	10.0	—
Site Preparation	Site Preparation	10/3/2027	10/19/2027	5.00	12.0	—
Grading	Grading	10/20/2027	11/17/2027	5.00	21.0	—
Building Construction	Building Construction	11/18/2027	9/19/2028	5.00	219	—
Paving	Paving	2/18/2028	9/19/2028	5.00	153	—
Architectural Coating	Architectural Coating	7/20/2028	9/19/2028	5.00	44.0	—
Trenching	Trenching	11/18/2027	1/18/2028	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	6.00	367	0.29

Building Construction	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	15.9	25.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	25.0	HHDT

Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	80.6	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	34.2	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	13.5	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	6.84	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	5.00	18.5	LDA,LDT1,LDT2
Trenching	Vendor	—	10.2	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	123,486	41,162	261

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	633	—
Site Preparation	—	—	11.3	0.00	—
Grading	—	13,541	1.00	0.00	—
Paving	0.00	0.00	0.00	0.00	0.10

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
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Strip Mall	0.00	0%
Parking Lot	0.10	100%
Industrial Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	690	0.05	0.01
2028	0.00	690	0.05	0.01

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
Total all Land Uses	382	382	382	139,430	3,012	3,012	3,012	1,099,380

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	123,486	41,162	261

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Strip Mall	39,418	690	0.0489	0.0069	19,495
Parking Lot	3,816	690	0.0489	0.0069	0.00
Industrial Park	1,248,256	690	0.0489	0.0069	1,574,499

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	293,253	7,012
Parking Lot	0.00	7,012
Industrial Park	18,121,906	14,025

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	4.16	—
Parking Lot	0.00	—

Industrial Park	97.2	—
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5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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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	5.27	annual days of extreme heat

Extreme Precipitation	5.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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	1	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	1	1	1	2
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	37.6
AQ-PM	64.7
AQ-DPM	63.4
Drinking Water	52.7
Lead Risk Housing	0.24
Pesticides	0.00

Toxic Releases	82.0
Traffic	79.0
Effect Indicators	—
CleanUp Sites	70.2
Groundwater	96.1
Haz Waste Facilities/Generators	83.6
Impaired Water Bodies	99.6
Solid Waste	11.6
Sensitive Population	—
Asthma	19.6
Cardio-vascular	22.5
Low Birth Weights	30.8
Socioeconomic Factor Indicators	—
Education	4.21
Housing	64.8
Linguistic	26.4
Poverty	16.8
Unemployment	39.2

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	72.87309124
Employed	73.4377005
Median HI	74.22045425
Education	—

Bachelor's or higher	97.74156294
High school enrollment	100
Preschool enrollment	51.02014629
Transportation	—
Auto Access	84.51174131
Active commuting	53.36840755
Social	—
2-parent households	64.04465546
Voting	60.19504684
Neighborhood	—
Alcohol availability	53.62504812
Park access	32.97831387
Retail density	81.27807006
Supermarket access	77.58244578
Tree canopy	56.62774285
Housing	—
Homeownership	25.94636212
Housing habitability	44.62979597
Low-inc homeowner severe housing cost burden	65.50750674
Low-inc renter severe housing cost burden	25.94636212
Uncrowded housing	84.29359682
Health Outcomes	—
Insured adults	76.54305146
Arthritis	98.1
Asthma ER Admissions	97.2
High Blood Pressure	97.4
Cancer (excluding skin)	77.2

Asthma	88.8
Coronary Heart Disease	98.1
Chronic Obstructive Pulmonary Disease	99.1
Diagnosed Diabetes	98.2
Life Expectancy at Birth	73.5
Cognitively Disabled	98.4
Physically Disabled	93.4
Heart Attack ER Admissions	94.8
Mental Health Not Good	91.8
Chronic Kidney Disease	98.0
Obesity	89.8
Pedestrian Injuries	44.8
Physical Health Not Good	99.0
Stroke	98.4
Health Risk Behaviors	—
Binge Drinking	7.5
Current Smoker	92.2
No Leisure Time for Physical Activity	99.1
Climate Change Exposures	—
Wildfire Risk	28.1
SLR Inundation Area	27.1
Children	22.0
Elderly	92.4
English Speaking	71.9
Foreign-born	32.4
Outdoor Workers	96.3
Climate Change Adaptive Capacity	—

Impervious Surface Cover	17.3
Traffic Density	61.9
Traffic Access	87.4
Other Indices	—
Hardship	8.7
Other Decision Support	—
2016 Voting	44.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	36.0
Healthy Places Index Score for Project Location (b)	79.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Land Use	Developer plans
Construction: Construction Phases	Developer information
Construction: Off-Road Equipment	Model defaults
Construction: Dust From Material Movement	9,000 CY with soil expansion factors for topsoil and dry clay
Construction: Trips and VMT	.

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GHG Emissions Impact Compared to "Project Without Reduction Features" Scenario

Source	Project Without Reduction Features (2028)	As Proposed (2028)	Reduction from Project Without Reduction Features	Change from Project Without Reduction Features Scenario
Area	2	2	-	0%
Energy	847	491	(356)	-42%
Mobile	533	374	(159)	-30%
Waste	32	32	-	0%
Water	65	65	-	0%
Refrigerants	3	3	-	0%
Construction	15	15	-	0%
Total Emissions	1,496	982	(514)	-34.4%