Appendix A

15101 Paramount Boulevard Redevelopment Project

CalEEMod Outputs
Version 2022.1

15101 Paramount Blvd Redevelopment Project Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15101 Paramount Blvd Redevelopment Project
Construction Start Date	6/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	15101 Paramount Blvd, Paramount, CA 90723, USA
County	Los Angeles-South Coast
City	Paramount
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4877
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

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

Supermarket	23.3	1000sqft	1.01	23,256	7,214	—	—	—
Fast Food Restaurant with Drive Thru	5.25	1000sqft	0.65	5,248	4,642	—	—	—
Fast Food Restaurant with Drive Thru	2.40	1000sqft	0.65	2,400	4,642	—	—	—
Parking Lot	133	Space	1.01	0.00	7,214	—	—	—

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	3.72	36.0	34.2	0.05	3.81	2.16	5,565
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	8.78	18.4	23.8	0.04	3.81	2.16	4,336
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	1.63	8.04	9.50	0.02	0.86	0.52	1,832
Annual (Max)	—	—	—	—	—	—	—
Unmit.	0.30	1.47	1.73	< 0.005	0.16	0.09	303
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—

Threshold	75.0	100	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2024	3.72	36.0	34.2	0.05	3.81	2.16	5,565
2025	2.07	17.3	24.1	0.04	1.16	0.77	4,359
Daily - Winter (Max)	—	—	—	—	—	—	—
2024	1.97	18.4	19.8	0.03	3.81	2.16	3,236
2025	8.78	17.3	23.8	0.04	1.16	0.77	4,336
Average Daily	—	—	—	—	—	—	—
2024	0.85	8.04	8.18	0.01	0.86	0.52	1,481
2025	1.63	7.25	9.50	0.02	0.43	0.30	1,832
Annual	—	—	—	—	—	—	—
2024	0.16	1.47	1.49	< 0.005	0.16	0.09	245
2025	0.30	1.32	1.73	< 0.005	0.08	0.06	303

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.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	18.4	8.45	84.5	0.15	12.6	3.30	21,895
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	17.9	9.18	82.9	0.14	12.6	3.30	21,268
Average Daily (Max)	—	—	—	—	—	—	—

Unmit.	17.9	9.19	84.4	0.14	12.5	3.27	21,450
Annual (Max)	—	—	—	—	—	—	—
Unmit.	3.26	1.68	15.4	0.03	2.28	0.60	3,551
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—
Exceeds (Annual)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	3,000
Unmit.	—	—	—	—	—	—	Yes

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	17.4	8.10	82.9	0.14	12.6	3.27	15,162
Area	0.97	0.01	1.34	< 0.005	< 0.005	< 0.005	5.55
Energy	0.02	0.34	0.29	< 0.005	0.03	0.03	1,426
Water	—	—	—	—	—	—	54.4
Waste	—	—	—	—	—	—	413
Refrig.	—	—	—	—	—	—	4,833
Total	18.4	8.45	84.5	0.15	12.6	3.30	21,895
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	17.1	8.83	82.6	0.14	12.6	3.27	14,541

Area	0.75	—	—	—	—	—	—
Energy	0.02	0.34	0.29	< 0.005	0.03	0.03	1,426
Water	—	—	—	—	—	—	54.4
Waste	—	—	—	—	—	—	413
Refrig.	—	—	—	—	—	—	4,833
Total	17.9	9.18	82.9	0.14	12.6	3.30	21,268
Average Daily	—	—	—	—	—	—	—
Mobile	17.0	8.84	83.2	0.14	12.5	3.24	14,719
Area	0.90	0.01	0.92	< 0.005	< 0.005	< 0.005	3.80
Energy	0.02	0.34	0.29	< 0.005	0.03	0.03	1,426
Water	—	—	—	—	—	—	54.4
Waste	—	—	—	—	—	—	413
Refrig.	—	—	—	—	—	—	4,833
Total	17.9	9.19	84.4	0.14	12.5	3.27	21,450
Annual	—	—	—	—	—	—	—
Mobile	3.10	1.61	15.2	0.03	2.28	0.59	2,437
Area	0.16	< 0.005	0.17	< 0.005	< 0.005	< 0.005	0.63
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	236
Water	—	—	—	—	—	—	9.00
Waste	—	—	—	—	—	—	68.4
Refrig.	—	—	—	—	—	—	800
Total	3.26	1.68	15.4	0.03	2.28	0.60	3,551

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	2.62	24.9	21.7	0.03	1.06	0.98	3,437
Demolition	—	—	—	—	0.58	0.09	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.32	3.00	2.62	< 0.005	0.13	0.12	414
Demolition	—	—	—	—	0.07	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.55	0.48	< 0.005	0.02	0.02	68.6
Demolition	—	—	—	—	0.01	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.07	0.07	1.13	0.00	0.20	0.05	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.93	0.36	< 0.005	0.20	0.06	782
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.02	0.01	24.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.12	0.04	< 0.005	0.02	0.01	94.1
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	4.12

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	15.6

3.3. Site Preparation (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	3.65	36.0	32.9	0.05	1.60	1.47	5,314
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.99	0.90	< 0.005	0.04	0.04	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.18	0.16	< 0.005	0.01	0.01	24.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.08	0.08	1.32	0.00	0.23	0.05	251
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.01	< 0.005	6.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.90	18.2	18.8	0.03	0.84	0.77	2,969
Dust From Material Movement	—	—	—	—	2.76	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.90	18.2	18.8	0.03	0.84	0.77	2,969
Dust From Material Movement	—	—	—	—	2.76	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.20	2.27	< 0.005	0.10	0.09	358
Dust From Material Movement	—	—	—	—	0.33	0.16	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.40	0.41	< 0.005	0.02	0.02	59.2
Dust From Material Movement	—	—	—	—	0.06	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.07	0.07	1.13	0.00	0.20	0.05	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	0.03	< 0.005	0.02	0.01	64.0
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.07	0.08	0.96	0.00	0.20	0.05	203
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	0.03	< 0.005	0.02	0.01	63.9
Average Daily	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.02	0.01	24.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	7.71
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	4.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.28

3.7. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	0.46	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—

Off-Road Equipment	0.18	1.67	1.95	< 0.005	0.07	0.07	358
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.30	0.36	< 0.005	0.01	0.01	59.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.05	0.06	0.68	0.00	0.14	0.03	144
Vendor	< 0.005	0.20	0.10	< 0.005	0.05	0.01	170
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.02	< 0.005	21.8
Vendor	< 0.005	0.03	0.01	< 0.005	0.01	< 0.005	25.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	3.61
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	4.20
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	0.40	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	0.40	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.70	6.46	8.06	0.01	0.27	0.25	1,488
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.18	1.47	< 0.005	0.05	0.04	246
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.05	0.05	0.74	0.00	0.14	0.03	150
Vendor	< 0.005	0.18	0.09	< 0.005	0.05	0.01	168
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.05	0.05	0.63	0.00	0.14	0.03	141
Vendor	< 0.005	0.19	0.09	< 0.005	0.05	0.01	168
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	0.03	0.03	0.41	0.00	0.09	0.02	88.8
Vendor	< 0.005	0.12	0.06	< 0.005	0.03	0.01	104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.02	< 0.005	14.7
Vendor	< 0.005	0.02	0.01	< 0.005	0.01	< 0.005	17.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.52	8.84	0.01	0.29	0.26	1,355
Paving	0.09	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.52	8.84	0.01	0.29	0.26	1,355
Paving	0.09	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.54	0.73	< 0.005	0.02	0.02	111
Paving	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.13	< 0.005	< 0.005	< 0.005	18.4
Paving	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.09	0.09	1.39	0.00	0.26	0.06	281
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.08	0.10	1.18	0.00	0.26	0.06	265

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.02	< 0.005	22.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	3.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.88	1.14	< 0.005	0.03	0.03	134
Architectural Coatings	7.47	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.12	< 0.005	< 0.005	< 0.005	14.7
Architectural Coatings	0.82	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.43
Architectural Coatings	0.15	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.03	0.01	28.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	3.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Supermarket	6.51	3.17	32.8	0.06	5.20	1.35	6,207
Fast Food Restaurant with Drive Thru	10.9	4.93	50.1	0.09	7.41	1.92	8,955
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total	17.4	8.10	82.9	0.14	12.6	3.27	15,162
Daily, Winter (Max)	—	—	—	—	—	—	—
Supermarket	6.41	3.45	32.4	0.06	5.20	1.35	5,950
Fast Food Restaurant with Drive Thru	10.7	5.38	50.2	0.08	7.41	1.92	8,591
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	17.1	8.83	82.6	0.14	12.6	3.27	14,541
Annual	—	—	—	—	—	—	—
Supermarket	1.16	0.63	5.96	0.01	0.94	0.24	997
Fast Food Restaurant with Drive Thru	1.94	0.98	9.22	0.02	1.34	0.35	1,440
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.10	1.61	15.2	0.03	2.28	0.59	2,437

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	726
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	254
Parking Lot	—	—	—	—	—	—	37.0
Total	—	—	—	—	—	—	1,017
Daily, Winter (Max)	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	726
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	254

Parking Lot	—	—	—	—	—	—	37.0
Total	—	—	—	—	—	—	1,017
Annual	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	120
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	42.1
Parking Lot	—	—	—	—	—	—	6.13
Total	—	—	—	—	—	—	168

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Supermarket	0.01	0.11	0.09	< 0.005	0.01	0.01	126
Fast Food Restaurant with Drive Thru	0.01	0.24	0.20	< 0.005	0.02	0.02	283
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.34	0.29	< 0.005	0.03	0.03	409
Daily, Winter (Max)	—	—	—	—	—	—	—
Supermarket	0.01	0.11	0.09	< 0.005	0.01	0.01	126
Fast Food Restaurant with Drive Thru	0.01	0.24	0.20	< 0.005	0.02	0.02	283
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.34	0.29	< 0.005	0.03	0.03	409
Annual	—	—	—	—	—	—	—
Supermarket	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	20.8
Fast Food Restaurant with Drive Thru	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	46.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	67.7

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Consumer Products	0.66	—	—	—	—	—	—
Architectural Coatings	0.08	—	—	—	—	—	—
Landscape Equipment	0.22	0.01	1.34	< 0.005	< 0.005	< 0.005	5.55
Total	0.97	0.01	1.34	< 0.005	< 0.005	< 0.005	5.55
Daily, Winter (Max)	—	—	—	—	—	—	—
Consumer Products	0.66	—	—	—	—	—	—
Architectural Coatings	0.08	—	—	—	—	—	—
Total	0.75	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Consumer Products	0.12	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—
Landscape Equipment	0.03	< 0.005	0.17	< 0.005	< 0.005	< 0.005	0.63
Total	0.16	< 0.005	0.17	< 0.005	< 0.005	< 0.005	0.63

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	28.0
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	25.9
Parking Lot	—	—	—	—	—	—	0.52
Total	—	—	—	—	—	—	54.4
Daily, Winter (Max)	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	28.0
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	25.9
Parking Lot	—	—	—	—	—	—	0.52
Total	—	—	—	—	—	—	54.4
Annual	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	4.63
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	4.28
Parking Lot	—	—	—	—	—	—	0.09
Total	—	—	—	—	—	—	9.00

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	247
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	166
Parking Lot	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	413
Daily, Winter (Max)	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	247
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	166
Parking Lot	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	413
Annual	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	40.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	27.5
Parking Lot	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	68.4

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	4,821
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	12.0
Total	—	—	—	—	—	—	4,833
Daily, Winter (Max)	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	4,821
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	12.0
Total	—	—	—	—	—	—	4,833

Annual	—	—	—	—	—	—	—
Supermarket	—	—	—	—	—	—	798
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	1.98
Total	—	—	—	—	—	—	800

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	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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	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	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	6/1/2024	8/1/2024	5.00	44.0	—
Site Preparation	Site Preparation	8/2/2024	8/15/2024	5.00	10.0	—
Grading	Grading	8/16/2024	10/16/2024	5.00	44.0	—
Building Construction	Building Construction	10/17/2024	11/12/2025	5.00	280	—
Paving	Paving	9/1/2025	10/10/2025	5.00	30.0	—
Architectural Coating	Architectural Coating	11/1/2025	12/27/2025	5.00	40.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73

Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	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	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	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

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	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	10.5	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.86	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	10.7	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	5.07	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	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	2.13	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

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	46,356	15,452	2,640

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	40,315	—
Grading	0.00	300	14.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.01

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
Supermarket	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
Parking Lot	1.01	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	349	0.03	< 0.005
2025	0.00	349	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Supermarket	2,182	2,182	2,182	796,385	7,273	7,273	7,273	2,654,663
Fast Food Restaurant with Drive Thru	2,419	2,419	2,419	882,921	6,769	6,769	6,769	2,470,769
Fast Food Restaurant with Drive Thru	1,281	1,281	1,281	467,565	3,585	3,585	3,585	1,308,436
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	46,356	15,452	2,640

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)
Supermarket	755,636	349	0.0330	0.0040	391,800
Fast Food Restaurant with Drive Thru	181,740	349	0.0330	0.0040	604,211
Fast Food Restaurant with Drive Thru	83,113	349	0.0330	0.0040	276,316
Parking Lot	38,540	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Supermarket	1,860,480	101,169
Fast Food Restaurant with Drive Thru	853,980	65,107
Fast Food Restaurant with Drive Thru	853,980	65,107
Parking Lot	0.00	101,169

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Supermarket	131	—
Fast Food Restaurant with Drive Thru	60.5	—
Fast Food Restaurant with Drive Thru	27.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Supermarket	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Supermarket	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.91	annual days of extreme heat
Extreme Precipitation	4.70	annual days with precipitation above 20 mm
Sea Level Rise	—	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 ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	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	35.2
AQ-PM	83.6
AQ-DPM	63.0
Drinking Water	18.9
Lead Risk Housing	71.7
Pesticides	0.00
Toxic Releases	97.2
Traffic	44.8
Effect Indicators	—
CleanUp Sites	86.6
Groundwater	76.4

Haz Waste Facilities/Generators	96.7
Impaired Water Bodies	66.7
Solid Waste	72.6
Sensitive Population	—
Asthma	71.3
Cardio-vascular	81.8
Low Birth Weights	74.0
Socioeconomic Factor Indicators	—
Education	87.1
Housing	74.8
Linguistic	66.2
Poverty	88.3
Unemployment	85.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	17.70819967
Employed	17.64403952
Median HI	27.03708456
Education	—
Bachelor's or higher	1.706659823
High school enrollment	16.64314128
Preschool enrollment	61.06762479
Transportation	—
Auto Access	56.16578981

Active commuting	74.7337354
Social	—
2-parent households	46.72141666
Voting	14.08956756
Neighborhood	—
Alcohol availability	37.41819582
Park access	2.194276915
Retail density	82.61260105
Supermarket access	18.58077762
Tree canopy	15.35993841
Housing	—
Homeownership	8.931092006
Housing habitability	11.03554472
Low-inc homeowner severe housing cost burden	34.0177082
Low-inc renter severe housing cost burden	30.29641986
Uncrowded housing	4.029257026
Health Outcomes	—
Insured adults	10.27845502
Arthritis	0.0
Asthma ER Admissions	28.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	3.4

Cognitively Disabled	21.0
Physically Disabled	83.0
Heart Attack ER Admissions	14.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	54.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	43.1
Elderly	95.9
English Speaking	17.2
Foreign-born	72.3
Outdoor Workers	37.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	9.3
Traffic Density	29.2
Traffic Access	23.0
Other Indices	—
Hardship	91.3

Other Decision Support	—
2016 Voting	8.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	96.0
Healthy Places Index Score for Project Location (b)	17.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Per project site plan, assumes buildout of 3.3 AC site with 23,256 SF Sprouts Market, 5248 SF two tenant building with Panera Bread (drive-thru) and fast food (no drive thru), 2,400 SF Starbucks (drive-thru), 133 parking stalls, and 23,712 SF of landscaping.
Construction: Construction Phases	Construction will include demolition of 40,315 SF of existing buildings. Assumed that building construction, paving, and architectural coating phases will occur as overlapping, staggered phases. Assumes buildout by July 2025.

Operations: Vehicle Data	Per Traffic Impact Analysis prepared for Project, Project will generate total of 5,882 trips. CalEEMod default trip purpose and percentages for weedays have been applied to Saturday and Sunday trips.
Construction: Dust From Material Movement	Material export will occur during grading phase.
Operations: Energy Use	The City has adopted the 2022 California Building Code. The project must comply with Title 24 standards.
Operations: Water and Waste Water	Water demand based on ISMND prepared for the Project. Total supermarket and fast food restaurants water demand is 3,568,440 gals per year, or 10.95 AFY

Parmount: Existing Use, Lumber/Hardware Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Parmount: Existing Use, Lumber/Hardware
Operational Year	2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	33.895663042275345, -118.16094540107048
County	Los Angeles-South Coast
City	Paramount
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4877
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

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
Hardware/Paint Store	40.3	1000sqft	0.93	40,315	5,000	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	2.74	1.30	15.3	0.03	2.49	0.65	4,526
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	2.43	1.40	12.4	0.03	2.49	0.65	4,384
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	2.50	1.07	10.6	0.02	1.62	0.43	3,470
Annual (Max)	—	—	—	—	—	—	—
Unmit.	0.46	0.20	1.93	< 0.005	0.30	0.08	574

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	1.48	1.22	13.4	0.03	2.48	0.64	2,964
Area	1.25	0.01	1.75	< 0.005	< 0.005	< 0.005	7.24
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	657
Water	—	—	—	—	—	—	54.8
Waste	—	—	—	—	—	—	843
Refrig.	—	—	—	—	—	—	0.19

Total	2.74	1.30	15.3	0.03	2.49	0.65	4,526
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	1.46	1.34	12.3	0.03	2.48	0.64	2,829
Area	0.97	—	—	—	—	—	—
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	657
Water	—	—	—	—	—	—	54.8
Waste	—	—	—	—	—	—	843
Refrig.	—	—	—	—	—	—	0.19
Total	2.43	1.40	12.4	0.03	2.49	0.65	4,384
Average Daily	—	—	—	—	—	—	—
Mobile	1.34	1.00	9.34	0.02	1.61	0.42	1,910
Area	1.16	0.01	1.20	< 0.005	< 0.005	< 0.005	4.96
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	657
Water	—	—	—	—	—	—	54.8
Waste	—	—	—	—	—	—	843
Refrig.	—	—	—	—	—	—	0.19
Total	2.50	1.07	10.6	0.02	1.62	0.43	3,470
Annual	—	—	—	—	—	—	—
Mobile	0.24	0.18	1.70	< 0.005	0.29	0.08	316
Area	0.21	< 0.005	0.22	< 0.005	< 0.005	< 0.005	0.82
Energy	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	109
Water	—	—	—	—	—	—	9.08
Waste	—	—	—	—	—	—	140
Refrig.	—	—	—	—	—	—	0.03
Total	0.46	0.20	1.93	< 0.005	0.30	0.08	574

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	1.48	1.22	13.4	0.03	2.48	0.64	2,964
Total	1.48	1.22	13.4	0.03	2.48	0.64	2,964
Daily, Winter (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	1.46	1.34	12.3	0.03	2.48	0.64	2,829
Total	1.46	1.34	12.3	0.03	2.48	0.64	2,829
Annual	—	—	—	—	—	—	—
Hardware/Paint Store	0.24	0.18	1.70	< 0.005	0.29	0.08	316
Total	0.24	0.18	1.70	< 0.005	0.29	0.08	316

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	579
Total	—	—	—	—	—	—	579
Daily, Winter (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	579
Total	—	—	—	—	—	—	579
Annual	—	—	—	—	—	—	—

Hardware/Paint Store	—	—	—	—	—	—	95.9
Total	—	—	—	—	—	—	95.9

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	77.6
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	77.6
Daily, Winter (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	77.6
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	77.6
Annual	—	—	—	—	—	—	—
Hardware/Paint Store	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	12.8
Total	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	12.8

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Consumer Products	0.86	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—
Landscape Equipment	0.29	0.01	1.75	< 0.005	< 0.005	< 0.005	7.24
Total	1.25	0.01	1.75	< 0.005	< 0.005	< 0.005	7.24
Daily, Winter (Max)	—	—	—	—	—	—	—

Consumer Products	0.86	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—
Total	0.97	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Consumer Products	0.16	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.22	< 0.005	< 0.005	< 0.005	0.82
Total	0.21	< 0.005	0.22	< 0.005	< 0.005	< 0.005	0.82

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	54.8
Total	—	—	—	—	—	—	54.8
Daily, Winter (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	54.8
Total	—	—	—	—	—	—	54.8
Annual	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	9.08
Total	—	—	—	—	—	—	9.08

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	843
Total	—	—	—	—	—	—	843
Daily, Winter (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	843
Total	—	—	—	—	—	—	843
Annual	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	140
Total	—	—	—	—	—	—	140

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	0.19
Total	—	—	—	—	—	—	0.19
Daily, Winter (Max)	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	0.19
Total	—	—	—	—	—	—	0.19
Annual	—	—	—	—	—	—	—
Hardware/Paint Store	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	0.03

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	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	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	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	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	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

5.9. 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
Hardware/Paint Store	387	387	387	141,249	1,803	3,476	3,476	832,494

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	60,473	20,158	—

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)
Hardware/Paint Store	395,948	532	0.0330	0.0040	241,364

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Hardware/Paint Store	2,986,234	70,123

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Hardware/Paint Store	447	—

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
Hardware/Paint Store	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Hardware/Paint Store	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.91	annual days of extreme heat
Extreme Precipitation	4.70	annual days with precipitation above 20 mm
Sea Level Rise	—	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 ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	0	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	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	35.2
AQ-PM	83.6
AQ-DPM	63.0
Drinking Water	18.9
Lead Risk Housing	71.7
Pesticides	0.00
Toxic Releases	97.2
Traffic	44.8
Effect Indicators	—
CleanUp Sites	86.6
Groundwater	76.4
Haz Waste Facilities/Generators	96.7
Impaired Water Bodies	66.7
Solid Waste	72.6
Sensitive Population	—
Asthma	71.3
Cardio-vascular	81.8
Low Birth Weights	74.0
Socioeconomic Factor Indicators	—

Education	87.1
Housing	74.8
Linguistic	66.2
Poverty	88.3
Unemployment	85.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	17.70819967
Employed	17.64403952
Median HI	27.03708456
Education	—
Bachelor's or higher	1.706659823
High school enrollment	16.64314128
Preschool enrollment	61.06762479
Transportation	—
Auto Access	56.16578981
Active commuting	74.7337354
Social	—
2-parent households	46.72141666
Voting	14.08956756
Neighborhood	—
Alcohol availability	37.41819582
Park access	2.194276915
Retail density	82.61260105

Supermarket access	18.58077762
Tree canopy	15.35993841
Housing	—
Homeownership	8.931092006
Housing habitability	11.03554472
Low-inc homeowner severe housing cost burden	34.0177082
Low-inc renter severe housing cost burden	30.29641986
Uncrowded housing	4.029257026
Health Outcomes	—
Insured adults	10.27845502
Arthritis	0.0
Asthma ER Admissions	28.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	3.4
Cognitively Disabled	21.0
Physically Disabled	83.0
Heart Attack ER Admissions	14.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	54.0
Physical Health Not Good	0.0

Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	43.1
Elderly	95.9
English Speaking	17.2
Foreign-born	72.3
Outdoor Workers	37.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	9.3
Traffic Density	29.2
Traffic Access	23.0
Other Indices	—
Hardship	91.3
Other Decision Support	—
2016 Voting	8.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	96.0
Healthy Places Index Score for Project Location (b)	17.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip rates per project Trip Generation table. Assumes existing use generates 387 trips.
Operations: Energy Use	Existing structures have been present for more than 30 years. Structures were not developed to current Title 24 standards.