

Blue Oak Car Wash Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Blue Oak Car Wash
Construction Start Date	7/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	18.0
Location	38.67960760744876, -121.33401931539643
County	Sacramento
City	Unincorporated
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	616
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

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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Automobile Care Center	22.0	1000sqft	0.51	3.00	0.00	—	—	—
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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	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Unmit.	1.22	11.4	5.92	3.08
Daily, Winter (Max)	—	—	—	—
Unmit.	0.60	5.60	0.39	0.24
Average Daily (Max)	—	—	—	—
Unmit.	0.19	1.81	0.12	0.09
Annual (Max)	—	—	—	—
Unmit.	0.03	0.33	0.02	0.02

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	PM10T	PM2.5T
Daily - Summer (Max)	—	—	—	—
2024	1.22	11.4	5.92	3.08
Daily - Winter (Max)	—	—	—	—
2024	0.60	5.60	0.39	0.24
Average Daily	—	—	—	—

2024	0.19	1.81	0.12	0.09
Annual	—	—	—	—
2024	0.03	0.33	0.02	0.02

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	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Unmit.	2.44	2.27	3.85	1.00
Daily, Winter (Max)	—	—	—	—
Unmit.	2.17	2.67	3.85	1.00
Average Daily (Max)	—	—	—	—
Unmit.	1.84	1.69	2.33	0.61
Annual (Max)	—	—	—	—
Unmit.	0.34	0.31	0.43	0.11

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	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Mobile	2.44	2.27	3.85	1.00
Area	< 0.005	< 0.005	< 0.005	< 0.005
Energy	< 0.005	< 0.005	< 0.005	< 0.005
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	2.44	2.27	3.85	1.00

Daily, Winter (Max)	—	—	—	—
Mobile	2.17	2.67	3.85	1.00
Area	< 0.005	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	2.17	2.67	3.85	1.00
Average Daily	—	—	—	—
Mobile	1.84	1.69	2.33	0.61
Area	< 0.005	< 0.005	< 0.005	< 0.005
Energy	< 0.005	< 0.005	< 0.005	< 0.005
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	1.84	1.69	2.33	0.61
Annual	—	—	—	—
Mobile	0.34	0.31	0.43	0.11
Area	< 0.005	< 0.005	< 0.005	< 0.005
Energy	< 0.005	< 0.005	< 0.005	< 0.005
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	0.34	0.31	0.43	0.11

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	PM10T	PM2.5T
Onsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Off-Road Equipment	0.51	4.69	0.19	0.17
Demolition	—	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—
Average Daily	—	—	—	—
Off-Road Equipment	0.01	0.13	0.01	< 0.005
Demolition	—	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	< 0.005
Demolition	—	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00
Offsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Worker	0.04	0.03	0.10	0.02
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—
Average Daily	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00

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

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	PM10T	PM2.5T
Onsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Off-Road Equipment	0.50	4.60	0.24	0.22
Dust From Material Movement	—	—	0.53	0.06
Onsite truck	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—
Average Daily	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	< 0.005
Dust From Material Movement	—	—	< 0.005	< 0.005
Onsite truck	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005
Dust From Material Movement	—	—	< 0.005	< 0.005
Onsite truck	0.00	0.00	0.00	0.00
Offsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Worker	0.02	0.02	0.05	0.01
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—
Average Daily	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	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	PM10T	PM2.5T
Onsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Off-Road Equipment	1.19	11.4	0.53	0.49
Dust From Material Movement	—	—	5.31	2.57
Onsite truck	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—
Average Daily	—	—	—	—
Off-Road Equipment	0.01	0.06	< 0.005	< 0.005
Dust From Material Movement	—	—	0.03	0.01
Onsite truck	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	< 0.005
Dust From Material Movement	—	—	0.01	< 0.005
Onsite truck	0.00	0.00	0.00	0.00

Offsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Worker	0.03	0.02	0.08	0.02
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—
Average Daily	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00

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	PM10T	PM2.5T
Onsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Off-Road Equipment	0.56	5.60	0.26	0.23
Onsite truck	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—
Off-Road Equipment	0.56	5.60	0.26	0.23
Onsite truck	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—
Off-Road Equipment	0.15	1.53	0.07	0.06

Onsite truck	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Off-Road Equipment	0.03	0.28	0.01	0.01
Onsite truck	0.00	0.00	0.00	0.00
Offsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00

3.9. Paving (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	PM10T	PM2.5T
Onsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—

Daily, Winter (Max)	—	—	—	—
Off-Road Equipment	0.53	4.52	0.21	0.19
Paving	0.00	—	—	—
Onsite truck	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—
Off-Road Equipment	0.01	0.06	< 0.005	< 0.005
Paving	0.00	—	—	—
Onsite truck	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	< 0.005
Paving	0.00	—	—	—
Onsite truck	0.00	0.00	0.00	0.00
Offsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Worker	0.07	0.08	0.18	0.04
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00

3.11. Architectural Coating (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	PM10T	PM2.5T
Onsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Off-Road Equipment	0.14	0.91	0.03	0.03
Architectural Coatings	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	< 0.005
Architectural Coatings	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00
Annual	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005
Architectural Coatings	< 0.005	—	—	—
Onsite truck	0.00	0.00	0.00	0.00
Offsite	—	—	—	—
Daily, Summer (Max)	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00

Annual	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00
Hauling	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	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Automobile Care Center	2.44	2.27	3.85	1.00
Total	2.44	2.27	3.85	1.00
Daily, Winter (Max)	—	—	—	—
Automobile Care Center	2.17	2.67	3.85	1.00
Total	2.17	2.67	3.85	1.00
Annual	—	—	—	—
Automobile Care Center	0.34	0.31	0.43	0.11
Total	0.34	0.31	0.43	0.11

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	PM10T	PM2.5T
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Daily, Summer (Max)	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—

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	NO _x	PM ₁₀ T	PM _{2.5} T
Daily, Summer (Max)	—	—	—	—
Automobile Care Center	< 0.005	< 0.005	< 0.005	< 0.005
Total	< 0.005	< 0.005	< 0.005	< 0.005
Daily, Winter (Max)	—	—	—	—
Automobile Care Center	< 0.005	< 0.005	< 0.005	< 0.005
Total	< 0.005	< 0.005	< 0.005	< 0.005
Annual	—	—	—	—
Automobile Care Center	< 0.005	< 0.005	< 0.005	< 0.005
Total	< 0.005	< 0.005	< 0.005	< 0.005

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	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Consumer Products	< 0.005	—	—	—
Architectural Coatings	< 0.005	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	< 0.005
Total	< 0.005	< 0.005	< 0.005	< 0.005
Daily, Winter (Max)	—	—	—	—
Consumer Products	< 0.005	—	—	—
Architectural Coatings	< 0.005	—	—	—
Total	< 0.005	—	—	—
Annual	—	—	—	—
Consumer Products	< 0.005	—	—	—
Architectural Coatings	< 0.005	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	< 0.005
Total	< 0.005	< 0.005	< 0.005	< 0.005

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	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—

Annual	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—

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	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—

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	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—

Daily, Winter (Max)	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Automobile Care Center	—	—	—	—
Total	—	—	—	—

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	PM10T	PM2.5T
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	PM10T	PM2.5T
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	PM10T	PM2.5T
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	PM10T	PM2.5T
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	PM10T	PM2.5T
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	PM10T	PM2.5T
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	7/1/2024	7/15/2024	5.00	10.0	—
Site Preparation	Site Preparation	7/16/2024	7/17/2024	5.00	1.00	—
Grading	Grading	7/18/2024	7/20/2024	5.00	2.00	—
Building Construction	Building Construction	7/21/2024	12/8/2024	5.00	100	—
Paving	Paving	12/9/2024	12/16/2024	5.00	5.00	—
Architectural Coating	Architectural Coating	12/17/2024	12/24/2024	5.00	5.00	—

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
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Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	6.00	84.0	0.37
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	1.00	367	0.40
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	6.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	6.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	6.00	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	7.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	4.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	7.00	81.0	0.42
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	10.0	14.3	LDA,LDT1,LDT2

Demolition	Vendor	—	8.80	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	5.00	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	7.50	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	< 0.005	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	< 0.005	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	17.5	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	< 0.005	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT

Architectural Coating	Onsite truck	—	—	HHDT
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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	4.50	1.50	—

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	0.00	—
Site Preparation	—	—	0.50	0.00	—
Grading	—	—	1.50	0.00	—
Paving	0.00	0.00	0.00	0.00	0.50

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Automobile Care Center	0.50	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	375	0.01	< 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
Automobile Care Center	522	522	261	176,889	3,001	5,376	2,692	1,203,048

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	4.50	1.50	—

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)
Automobile Care Center	27.0	375	0.0129	0.0017	119

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Automobile Care Center	2,069,784	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	84.0	—

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
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	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	24.1	annual days of extreme heat
Extreme Precipitation	6.45	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.69	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	2	2	4	1
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	3	2	5	1
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	5	3	5	1

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	2	2	4	1
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	3	2	5	1
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	5	3	5	1

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	62.5
AQ-PM	28.6
AQ-DPM	75.2
Drinking Water	83.2
Lead Risk Housing	37.9
Pesticides	0.00
Toxic Releases	18.7
Traffic	92.4
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	52.0
Haz Waste Facilities/Generators	45.7
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	76.2
Cardio-vascular	65.8
Low Birth Weights	82.6
Socioeconomic Factor Indicators	—
Education	29.3
Housing	49.0

Linguistic	26.4
Poverty	63.5
Unemployment	—

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	40.92133966
Employed	33.01680996
Median HI	19.4661876
Education	—
Bachelor's or higher	39.89477736
High school enrollment	0.628769408
Preschool enrollment	48.90286154
Transportation	—
Auto Access	32.25972026
Active commuting	39.02219941
Social	—
2-parent households	29.41100988
Voting	58.4370589
Neighborhood	—
Alcohol availability	52.0082125
Park access	41.84524573
Retail density	63.63403054
Supermarket access	49.13383806
Tree canopy	91.17156422

Housing	—
Homeownership	47.83780316
Housing habitability	57.79545746
Low-inc homeowner severe housing cost burden	76.05543436
Low-inc renter severe housing cost burden	37.90581291
Uncrowded housing	67.80443988
Health Outcomes	—
Insured adults	57.69280123
Arthritis	1.9
Asthma ER Admissions	28.7
High Blood Pressure	4.2
Cancer (excluding skin)	6.6
Asthma	12.1
Coronary Heart Disease	2.7
Chronic Obstructive Pulmonary Disease	2.6
Diagnosed Diabetes	22.3
Life Expectancy at Birth	17.2
Cognitively Disabled	10.2
Physically Disabled	4.5
Heart Attack ER Admissions	46.8
Mental Health Not Good	31.0
Chronic Kidney Disease	7.4
Obesity	25.8
Pedestrian Injuries	97.2
Physical Health Not Good	23.1
Stroke	6.5
Health Risk Behaviors	—

Binge Drinking	68.3
Current Smoker	16.7
No Leisure Time for Physical Activity	46.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	20.9
Elderly	10.8
English Speaking	74.0
Foreign-born	10.0
Outdoor Workers	40.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	54.8
Traffic Density	85.6
Traffic Access	61.8
Other Indices	—
Hardship	47.5
Other Decision Support	—
2016 Voting	47.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	63.0
Healthy Places Index Score for Project Location (b)	21.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Paving	adding acreage.
Operations: Refrigerants	no supermarket refrigeration.
Land Use	Incorrect building sq ft.