

Appendix C:
Air Quality and GHG Emissions Estimates and Energy
Calculations

Shasta County Courthouse Detailed Report

Table of Contents

- 1. Basic Project Information
 - 1.1. Basic Project Information
 - 1.2. Land Use Types
 - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
 - 2.1. Construction Emissions Compared Against Thresholds
 - 2.2. Construction Emissions by Year, Unmitigated
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Demolition (2026) - Unmitigated
 - 3.3. Site Preparation (2026) - Unmitigated
 - 3.5. Grading (2026) - Unmitigated
 - 3.7. Paving (2026) - Unmitigated
 - 3.9. Architectural Coating (2026) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Shasta County Courthouse
Construction Start Date	5/1/2026
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.7
Precipitation (days)	1.2
Location	1500 Court St, Redding, CA 96001, USA
County	Shasta
City	Redding
Air District	Shasta County AQMD
Air Basin	Sacramento Valley
TAZ	132
EDFZ	15
Electric Utility	Redding Electric Utility
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.35

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
Parking Lot	162	Space	2.8	0.00	34,500	—	—	—

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.3	5.3	15	16	0.03	0.58	7.2	7.7	0.53	3.4	4.0	—	4,075	4,075	0.12	0.25	3.6	4,156
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.44	0.39	2.2	2.5	< 0.005	0.08	0.41	0.49	0.08	0.11	0.19	—	586	586	0.02	0.03	0.20	596
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.07	0.41	0.45	< 0.005	0.02	0.08	0.09	0.01	0.02	0.03	—	97	97	< 0.005	0.01	0.03	99

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.3	5.3	15	16	0.03	0.58	7.2	7.7	0.53	3.4	4.0	—	4,075	4,075	0.12	0.25	3.6	4,156
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	0.44	0.39	2.2	2.5	< 0.005	0.08	0.41	0.49	0.08	0.11	0.19	—	586	586	0.02	0.03	0.20	596
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.07	0.41	0.45	< 0.005	0.02	0.08	0.09	0.01	0.02	0.03	—	97	97	< 0.005	0.01	0.03	99

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47	47	0.01	< 0.005	0.00	48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47	47	0.01	< 0.005	0.00	48
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47	47	0.01	< 0.005	0.00	48
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.8	7.8	< 0.005	< 0.005	0.00	7.9

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.02	0.02	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47	47	0.01	< 0.005	—	47
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.24	0.24	< 0.005	< 0.005	—	0.24
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47	47	0.01	< 0.005	0.00	48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47	47	0.01	< 0.005	—	47
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.24	0.24	< 0.005	< 0.005	—	0.24
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47	47	0.01	< 0.005	0.00	48
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.02	0.02	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47	47	0.01	< 0.005	—	47
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.24	0.24	< 0.005	< 0.005	—	0.24
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47	47	0.01	< 0.005	0.00	48
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7.7	7.7	< 0.005	< 0.005	—	7.8
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.8	7.8	< 0.005	< 0.005	0.00	7.9

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.7	1.4	13	15	0.02	0.51	—	0.51	0.47	—	0.47	—	2,494	2,494	0.10	0.02	—	2,503
Demolition	—	—	—	—	—	—	1.8	1.8	—	0.27	0.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.16	1.5	1.7	< 0.005	0.06	—	0.06	0.06	—	0.06	—	294	294	0.01	< 0.005	—	295
Demolition	—	—	—	—	—	—	0.21	0.21	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.03	0.28	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49	49	< 0.005	< 0.005	—	49
Demolition	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.06	1.1	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	175	175	0.01	0.01	0.62	178
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	0.03	1.7	0.35	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,406	1,406	0.01	0.22	3.0	1,476
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19	19	< 0.005	< 0.005	0.03	19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.21	0.04	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.02	—	166	166	< 0.005	0.03	0.15	174
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.1	3.1	< 0.005	< 0.005	0.01	3.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27	27	< 0.005	< 0.005	0.03	29

3.3. Site Preparation (2026) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.3	1.1	9.8	11	0.03	0.42	—	0.42	0.39	—	0.39	—	2,716	2,716	0.11	0.02	—	2,725
Dust From Material Movement	—	—	—	—	—	—	1.6	1.6	—	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22	22	< 0.005	< 0.005	—	22
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.7	3.7	< 0.005	< 0.005	—	3.7
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.54	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	87	87	< 0.005	< 0.005	0.31	89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.65	0.65	< 0.005	< 0.005	< 0.005	0.66
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

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

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

Off-Road Equipment	1.7	1.4	13	14	0.02	0.58	—	0.58	0.53	—	0.53	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	7.1	7.1	—	3.4	3.4	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40	40	< 0.005	< 0.005	—	40
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.7	6.7	< 0.005	< 0.005	—	6.7
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.54	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	87	87	< 0.005	< 0.005	0.31	89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.3	1.3	< 0.005	< 0.005	< 0.005	1.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Paving (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.67	5.9	8.2	0.01	0.25	—	0.25	0.23	—	0.23	—	1,244	1,244	0.05	0.01	—	1,248
Paving	0.74	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34	34	< 0.005	< 0.005	—	34	
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.6	5.6	< 0.005	< 0.005	—	5.7	
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.81	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	131	131	0.01	0.01	0.46	133	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.2	3.2	< 0.005	< 0.005	0.01	3.3	

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.55
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.1	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	5.1	5.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.7	3.7	< 0.005	< 0.005	—	3.7

Architect ural	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61
Architect ural Coating s	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.54	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	87	87	< 0.005	< 0.005	0.31	89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.2	2.2	< 0.005	< 0.005	< 0.005	2.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.36	0.36	< 0.005	< 0.005	< 0.005	0.36
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	47	47	0.01	< 0.005	—	47
Total	—	—	—	—	—	—	—	—	—	—	—	—	47	47	0.01	< 0.005	—	47
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	47	47	0.01	< 0.005	—	47
Total	—	—	—	—	—	—	—	—	—	—	—	—	47	47	0.01	< 0.005	—	47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	7.7	7.7	< 0.005	< 0.005	—	7.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	7.7	7.7	< 0.005	< 0.005	—	7.8

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.02	0.02	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.24	0.24	< 0.005	< 0.005	—	0.24
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.24	0.24	< 0.005	< 0.005	—	0.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.24	0.24	< 0.005	< 0.005	—	0.24
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.24	0.24	< 0.005	< 0.005	—	0.24
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	5/1/2026	6/30/2026	5.0	43	—
Site Preparation	Site Preparation	7/1/2026	7/3/2026	5.0	3.0	—
Grading	Grading	7/4/2026	7/13/2026	5.0	6.0	—
Paving	Paving	7/14/2026	7/27/2026	5.0	10.0	—
Architectural Coating	Architectural Coating	7/28/2026	8/10/2026	5.0	10.0	—

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	8.0	33	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Demolition	Tractors/Loaders/Back hoes	Diesel	Average	3.0	8.0	84	0.37

Site Preparation	Graders	Diesel	Average	1.00	8.0	148	0.41
Site Preparation	Scrapers	Diesel	Average	1.00	8.0	423	0.48
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.0	84	0.37
Grading	Graders	Diesel	Average	1.00	8.0	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.0	7.0	84	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.0	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.0	81	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.0	89	0.36
Paving	Rollers	Diesel	Average	2.0	8.0	36	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.0	84	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.0	37	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	Worker	20	11	LDA,LDT1,LDT2
Demolition	Vendor	—	6.9	HHDT,MHDT
Demolition	Hauling	21	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	10.0	11	LDA,LDT1,LDT2
Site Preparation	Vendor	—	6.9	HHDT,MHDT
Site Preparation	Hauling	0.00	20	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	10.0	11	LDA,LDT1,LDT2

Grading	Vendor	—	6.9	HHDT,MHDT
Grading	Hauling	0.00	20	HHDT
Grading	Onsite truck	—	—	HHDT
Paving	Worker	15	11	LDA,LDT1,LDT2
Paving	Vendor	—	6.9	HHDT,MHDT
Paving	Hauling	0.00	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	10.0	11	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	6.9	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	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	0.00	0.00	7,344

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Ton of Debris)	Material Exported (Ton of Debris)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	77,000	0.00
Site Preparation	0.00	0.00	4.5	0.00	0.00

Grading	0.00	0.00	6.0	0.00	0.00
Paving	0.00	0.00	0.00	0.00	2.8

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Parking Lot	2.8	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	159	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
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

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0

Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

—	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
undefined	0.00	0.00	0.00	0.00	7,344

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

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)
Parking Lot	107,226	159	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)
----------	-------------------------	--------------------------

Parking Lot	0.00	341,153
-------------	------	---------

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

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	21	annual days of extreme heat
Extreme Precipitation	16	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.59	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	4	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	4	1	1	4
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
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	43
AQ-PM	15
AQ-DPM	95
Drinking Water	23
Lead Risk Housing	54
Pesticides	0.00
Toxic Releases	4.8
Traffic	26
Effect Indicators	—
CleanUp Sites	84
Groundwater	39
Haz Waste Facilities/Generators	76
Impaired Water Bodies	12
Solid Waste	0.00
Sensitive Population	—
Asthma	74
Cardio-vascular	73
Low Birth Weights	80

Socioeconomic Factor Indicators	—
Education	56
Housing	97
Linguistic	21
Poverty	84
Unemployment	76

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	8.802771718
Employed	0.397792891
Median HI	0.243808546
Education	—
Bachelor's or higher	17.77235981
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	1.899140254
Active commuting	92.22379058
Social	—
2-parent households	32.09290389
Voting	26.97292442
Neighborhood	—
Alcohol availability	20.980367
Park access	39.58680867
Retail density	83.036058

Supermarket access	59.75875786
Tree canopy	83.69049147
Housing	—
Homeownership	3.926600796
Housing habitability	20.17194919
Low-inc homeowner severe housing cost burden	93.80213012
Low-inc renter severe housing cost burden	40.90850764
Uncrowded housing	66.9190299
Health Outcomes	—
Insured adults	39.29167201
Arthritis	6.3
Asthma ER Admissions	13.1
High Blood Pressure	21.8
Cancer (excluding skin)	30.9
Asthma	5.2
Coronary Heart Disease	6.8
Chronic Obstructive Pulmonary Disease	1.6
Diagnosed Diabetes	38.1
Life Expectancy at Birth	0.1
Cognitively Disabled	0.2
Physically Disabled	0.7
Heart Attack ER Admissions	31.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	15.0
Pedestrian Injuries	99.9
Physical Health Not Good	16.6
Stroke	11.3

Health Risk Behaviors	—
Binge Drinking	29.5
Current Smoker	2.7
No Leisure Time for Physical Activity	37.2
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	92.8
Elderly	31.8
English Speaking	98.1
Foreign-born	0.4
Outdoor Workers	56.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.4
Traffic Density	23.5
Traffic Access	0.0
Other Indices	—
Hardship	71.2
Other Decision Support	—
2016 Voting	17.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	63
Healthy Places Index Score for Project Location (b)	2.0
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

8.1. Justifications

Screen	Justification
Land Use	Updated Parking Lot acreage based on project specific information.
Construction: Construction Phases	Removed Building Construction phase. Updated Demolition work days per phase to 43.
Construction: Trips and VMT	Updated Demolition worker one-way trips to 20, Site Preparation one-way trips to 10, Architectural Coating one-way trips to 10 based on the data request response received 7/29/25.

Old Shasta County Courthouse Demolition Project
Redding, CA

Fuel Consumption Spreadsheets
Prepared by: MIG, Inc.
January 2026

Contents:

Sheet 1	Construction On-site Fuel Consumption and Summary of Fuel Consumption
Sheet 2	Construction Off-site Fuel Consumption
Sheet 3	Operational Fuel Efficiency for Shasta
Sheet 4	EMFAC2025 Raw Data

This page intentionally left blank.

Sheet 1: Construction On-site Fuel Consumption Estimations

Construction Phase	Days	Equipment	# of Pieces	Hr/ Day	Horsepower	Load Factor	Runtime (bhp-hr)	Consumption (bhp-hr/gal) ¹	Gallons of Diesel
Demolition	43	Concrete/Industrial Saws	1	8	33	0.73	8,287	18.5	448
Demolition	43	Rubber Tired Dozers	1	8	367	0.4	50,499	18.5	2,730
Demolition	43	Tractors/Loaders/Backhoes	3	8	84	0.37	32,075	18.5	1,734
Site Preparation	3	Graders	1	8	148	0.41	1,456	18.5	79
Site Preparation	3	Scrapers	1	8	423	0.48	4,873	18.5	263
Site Preparation	3	Tractors/Loaders/Backhoes	1	7	84	0.37	653	18.5	35
Grading	6	Graders	1	8	148	0.41	2,913	18.5	157
Grading	6	Rubber Tired Dozers	1	8	367	0.4	7,046	18.5	381
Grading	6	Tractors/Loaders/Backhoes	2	7	84	0.37	2,611	18.5	141
Paving	10	Cement and Mortar Mixers	1	8	10	0.56	448	18.5	24
Paving	10	Pavers	1	8	81	0.42	2,722	18.5	147
Paving	10	Paving Equipment	1	8	89	0.36	2,563	18.5	139
Paving	10	Rollers	2	8	36	0.38	2,189	18.5	118
Paving	10	Tractors/Loaders/Backhoes	1	8	84	0.37	2,486	18.5	134
Architectural Coating	10	Air Compressors	1	6	37	0.48	1,066	18.5	58
Total Construction On-Site Diesel Consumption									6,588

¹ The Carl Moyer Program Guidelines 2017 Revisions. Table D-21. Approved by the Board April 27, 2017.

Construction Fuel Consumption (Total)

Activity	Gasoline (gal)	Diesel (gal)	Electricity (kWh)
On-site	--	6,588	--
Off-site	497	3,735	342
Total	497	10,323	342

Sheet 2: Construction Off-site Fuel Consumption Estimates

Phase	Days	Number of Trips	Dist (mi)	Total VMT	Vehicle Class	Percent of Workers by Vehicle Class	Gas Average Fuel Economy (MPG)	Gas Fuel Split	Gas Fuel Use by Class (gal)	Gas Fuel Use by Phase (gal)	Diesel Average Fuel Economy (MPG)	Diesel Fuel Split	Diesel Fuel Use by Class (gal)	Diesel Fuel Use by Phase (gal)	Electric Average Fuel Economy (miles per kWh)	Electric Fuel Split	Electricity Use by Class (kWh)	Electricity Use by Phase (kWh)
Worker Trips																		
Demolition	43	20	11	9460	LDA	0.5	27.1	86.6%	151	356	39.0	0.3%	0.4	0.6	3.0	13.1%	207.6	244.8
					LDT1	0.25	22.6	99.2%	104		23.1	0.0%	0.0		2.6	0.8%	7.3	
					LDT2	0.25	22.8	96.9%	101		31.1	0.2%	0.1		2.3	2.9%	29.9	
Site Preparation	3	10	11	330	LDA	0.5	27.1	86.6%	5	12	39.0	0.3%	0.0	0.0	3.0	13.1%	7.2	8.5
					LDT1	0.25	22.6	99.2%	4		23.1	0.0%	0.0		2.6	0.8%	0.3	
					LDT2	0.25	22.8	96.9%	4		31.1	0.2%	0.0		2.3	2.9%	1.0	
Grading	6	10	11	660	LDA	0.5	27.1	86.6%	11	25	39.0	0.3%	0.0	0.0	3.0	13.1%	14.5	17.1
					LDT1	0.25	22.6	99.2%	7		23.1	0.0%	0.0		2.6	0.8%	0.5	
					LDT2	0.25	22.8	96.9%	7		31.1	0.2%	0.0		2.3	2.9%	2.1	
Paving	10	15	11	1650	LDA	0.5	27.1	86.6%	26	62	39.0	0.3%	0.1	0.1	3.0	13.1%	36.2	42.7
					LDT1	0.25	22.6	99.2%	18		23.1	0.0%	0.0		2.6	0.8%	1.3	
					LDT2	0.25	22.8	96.9%	18		31.1	0.2%	0.0		2.3	2.9%	5.2	
Architectural Coating	10	10	11	1100	LDA	0.5	27.1	86.6%	18	41	39.0	0.3%	0.0	0.1	3.0	13.1%	24.1	28.5
					LDT1	0.25	22.6	99.2%	12		23.1	0.0%	0.0		2.6	0.8%	0.8	
					LDT2	0.25	22.8	96.9%	12		31.1	0.2%	0.0		2.3	2.9%	3.5	
							Gasoline (gal)			497	Diesel (gal)			1	Electricity (kWh)			342
Hauling Trips																		
Demolition	43	17.2	20	14792	HHDT	1.0	N/A	0.0%	N/A	0	6.2	100%	2,374	2,374	N/A	0.0%	0.0	0.0
Site Preparation	3	105.5	20	6330	HHDT	1.0	N/A	0.0%	N/A	0	6.2	100%	1,016	1,016	N/A	0.0%	0.0	0.0
Grading	6	17.9	20	2148	HHDT	1.0	N/A	0.0%	N/A	0	6.2	100%	345	345	N/A	0.0%	0.0	0.0
							Gasoline (gal)			0	Diesel (gal)			3,734	Electricity (kWh)			0
Total On-Road Construction Trips Genergy Usage							Gasoline (gal)			497	Diesel (gal)			3,735	Electricity (kWh)			342

Sheet 3: Average Fuel Efficiency - Shasta (SV)
EMFAC2025 Shasta Fuel Efficiency Estimates for 2026

Table 1: 2026 Shasta Average Vehicle Fuel Efficiency (Gasoline)				
Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	0.49	20.34	5.83	3.49
LDA	66,389.41	1,893,459.50	69,993.97	27.05
LDT1	11,218.58	271,666.77	12,037.97	22.57
LDT2	41,916.82	1,364,084.66	59,854.63	22.79
LHDT1	4,493.02	133,562.37	14,184.28	9.42
LHDT2	685.61	25,501.88	2,807.84	9.08
MCY	6,834.08	31,733.49	814.32	38.97
MDV	33,537.82	1,022,212.40	55,772.76	18.33
MH	1,003.81	8,211.14	1,862.37	4.41
MHDT	333.97	14,559.18	2,993.17	4.86
OBUS	111.74	3,651.13	771.89	4.73
SBUS	28.98	1,233.41	125.27	9.85
UBUS	22.13	948.57	180.89	5.24
TOTAL	166,576.45	4,770,844.83	221,405.19	21.55

Table 2: 2026 Shasta Average Vehicle Fuel Efficiency (Diesel)				
Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	4,589.3	692,840.50	111,177.84	6.23
LDA	307.14	7,409.37	190.17	38.96
LDT1	3.08	37.49	1.62	23.14
LDT2	79.94	2,688.85	86.36	31.14
LHDT1	6,678.13	188,084.17	11,824.60	15.91
LHDT2	2,911.35	109,633.86	8,075.81	13.58
MCY	0.00	0.00	0.00	0.00
MDV	1,256.38	46,301.86	1,880.54	24.62
MH	506.62	4,133.49	440.03	9.39
MHDT	1,531.51	58,110.44	6,820.67	8.52
OBUS	32.71	1,788.53	251.19	7.12
SBUS	174.41	3,408.16	423.49	8.05
UBUS	19.98	1,869.25	262.27	7.13
TOTAL	18,090.54	1,116,305.96	141,434.59	7.89

Table 3: 2026 Shasta Average Vehicle Fuel Efficiency (Electricity)				
Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/day)	Miles Per kWh
HHDT	16.22	1,364.55	2,515.00	0.54
LDA	7,722.23	285,567.22	95,964.03	2.98
LDT1	54.88	2,216.87	843.94	2.63
LDT2	1,099.36	41,295.65	17,790.36	2.32
LHDT1	29.56	1,650.97	1,040.96	1.59
LHDT2	26.30	1,541.82	972.14	1.59
MCY	0.00	0.00	0.00	0.00
MDV	746.44	28,533.98	14,754.41	1.93
MH	0.00	0.00	0.00	0.00
MHDT	18.95	929.21	1,211.76	0.77
OBUS	0.13	9.03	11.90	0.76
SBUS	31.34	983.58	1,231.48	0.80
UBUS	1.43	63.77	111.16	0.57
TOTAL	9,746.84	364,156.65	136,447.16	2.67

Source: EMFAC2025 (v2.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Shasta (SV)

Calendar Year: 2026

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons:

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT
Shasta (SV)	2026	HHDT	Aggregate	Aggregate	Gasoline	0.48764	20.34188	20.34188	0
Shasta (SV)	2026	HHDT	Aggregate	Aggregate	Diesel	4589.299	692840.5	692840.5	0
Shasta (SV)	2026	HHDT	Aggregate	Aggregate	Electricity	16.22107	1364.554	0	1364.554
Shasta (SV)	2026	HHDT	Aggregate	Aggregate	Natural Ga	25.21808	1544.117	1544.117	0
Shasta (SV)	2026	LDA	Aggregate	Aggregate	Gasoline	64866.32	1863483	1863483	0
Shasta (SV)	2026	LDA	Aggregate	Aggregate	Diesel	307.1427	7409.369	7409.369	0
Shasta (SV)	2026	LDA	Aggregate	Aggregate	Electricity	6199.14	255374.1	0	255374.1
Shasta (SV)	2026	LDA	Aggregate	Aggregate	Plug-in Hy	1523.086	60169.11	29976.03	30193.08
Shasta (SV)	2026	LDT1	Aggregate	Aggregate	Gasoline	11205.16	271348.6	271348.6	0
Shasta (SV)	2026	LDT1	Aggregate	Aggregate	Diesel	3.075545	37.48534	37.48534	0
Shasta (SV)	2026	LDT1	Aggregate	Aggregate	Electricity	41.45527	1937.73	0	1937.73
Shasta (SV)	2026	LDT1	Aggregate	Aggregate	Plug-in Hy	13.42394	597.3551	318.2173	279.1378
Shasta (SV)	2026	LDT2	Aggregate	Aggregate	Gasoline	41513.04	1354439	1354439	0
Shasta (SV)	2026	LDT2	Aggregate	Aggregate	Diesel	79.94122	2688.849	2688.849	0
Shasta (SV)	2026	LDT2	Aggregate	Aggregate	Electricity	695.5887	32566.95	0	32566.95
Shasta (SV)	2026	LDT2	Aggregate	Aggregate	Plug-in Hy	403.7751	18373.86	9645.159	8728.697
Shasta (SV)	2026	LHDT1	Aggregate	Aggregate	Gasoline	4493.022	133562.4	133562.4	0
Shasta (SV)	2026	LHDT1	Aggregate	Aggregate	Diesel	6678.129	188084.2	188084.2	0
Shasta (SV)	2026	LHDT1	Aggregate	Aggregate	Electricity	29.5646	1650.974	0	1650.974
Shasta (SV)	2026	LHDT2	Aggregate	Aggregate	Gasoline	685.6081	25501.88	25501.88	0
Shasta (SV)	2026	LHDT2	Aggregate	Aggregate	Diesel	2911.345	109633.9	109633.9	0
Shasta (SV)	2026	LHDT2	Aggregate	Aggregate	Electricity	26.30482	1541.818	0	1541.818
Shasta (SV)	2026	MCY	Aggregate	Aggregate	Gasoline	6834.079	31733.49	31733.49	0
Shasta (SV)	2026	MDV	Aggregate	Aggregate	Gasoline	33281.25	1016273	1016273	0
Shasta (SV)	2026	MDV	Aggregate	Aggregate	Diesel	1256.377	46301.86	46301.86	0
Shasta (SV)	2026	MDV	Aggregate	Aggregate	Electricity	489.8675	23258.2	0	23258.2
Shasta (SV)	2026	MDV	Aggregate	Aggregate	Plug-in Hy	256.5695	11215.36	5939.569	5275.787
Shasta (SV)	2026	MH	Aggregate	Aggregate	Gasoline	1003.809	8211.141	8211.141	0
Shasta (SV)	2026	MH	Aggregate	Aggregate	Diesel	506.6186	4133.494	4133.494	0
Shasta (SV)	2026	MHDT	Aggregate	Aggregate	Gasoline	333.9723	14559.18	14559.18	0
Shasta (SV)	2026	MHDT	Aggregate	Aggregate	Diesel	1531.51	58110.44	58110.44	0
Shasta (SV)	2026	MHDT	Aggregate	Aggregate	Electricity	18.94781	929.2066	0	929.2066
Shasta (SV)	2026	OBUS	Aggregate	Aggregate	Gasoline	111.7378	3651.129	3651.129	0
Shasta (SV)	2026	OBUS	Aggregate	Aggregate	Diesel	32.71237	1788.529	1788.529	0
Shasta (SV)	2026	OBUS	Aggregate	Aggregate	Electricity	0.129437	9.026897	0	9.026897
Shasta (SV)	2026	SBUS	Aggregate	Aggregate	Gasoline	28.98028	1233.412	1233.412	0
Shasta (SV)	2026	SBUS	Aggregate	Aggregate	Diesel	174.4145	3408.158	3408.158	0
Shasta (SV)	2026	SBUS	Aggregate	Aggregate	Electricity	31.33908	983.5813	0	983.5813

Shasta (SV)	2026 SBUS	Aggregate	Aggregate	Natural Ga	1.519626	32.64117	32.64117	0
Shasta (SV)	2026 UBUS	Aggregate	Aggregate	Gasoline	22.12539	948.5688	948.5688	0
Shasta (SV)	2026 UBUS	Aggregate	Aggregate	Diesel	19.97555	1869.248	1869.248	0
Shasta (SV)	2026 UBUS	Aggregate	Aggregate	Electricity	1.425079	63.76542	0	63.76542

s/day for Gasoline and Diesel Fuel Consumption, 1000 diesel equivalent gallons/day for Natural Gas Fuel Consum

Trips	Energy Cor	Hydrogen (	NOx_RUNE	NOx_IDLE	NOx_STRE	NOx_TOTE	PM2.5_RU	PM2.5_IDL	PM2.5_STF
9.756708	0	0	0.000186	0	5.13E-06	0.000192	6.01E-08	0	1.38E-08
87994.73	0	0	0.674489	0.243181	0.203005	1.120675	0.012687	0.000116	0
187.4033	2514.999	0	0	0	0	0	0	0	0
206.0279	0	0	0.001978	0.00029	0	0.002268	1.87E-06	5.28E-07	0
273055.7	0	0	0.179707	0	0.064885	0.244592	0.005993	0	0.000614
1251.652	0	0	0.003379	0	0	0.003379	0.000239	0	0
30750.28	84881.27	0	0	0	0	0	0	0	0
6078.384	11082.76	0	0.000269	0	0.000684	0.000952	9.43E-05	0	1.34E-05
42888.84	0	0	0.083076	0	0.021921	0.104998	0.001107	0	0.000164
8.228416	0	0	7.02E-05	0	0	7.02E-05	1.04E-05	0	0
206.678	724.2996	0	0	0	0	0	0	0	0
54.66875	119.6421	0	2.85E-06	0	6.29E-06	9.15E-06	8.03E-07	0	9.58E-08
194018.3	0	0	0.140221	0	0.062092	0.202313	0.004042	0	0.000409
385.573	0	0	0.000264	0	0	0.000264	2.48E-05	0	0
3716.495	13521.65	0	0	0	0	0	0	0	0
1719.546	4268.718	0	8.65E-05	0	0.0002	0.000287	2.30E-05	0	2.88E-06
64509.1	0	0	0.046857	0.000179	0.045655	0.09269	0.000305	0	2.74E-05
80952.74	0	0	0.562639	0.016195	0	0.578834	0.01033	0.000191	0
390.2912	1040.964	0	0	0	0	0	0	0	0
11188.16	0	0	0.004298	2.63E-05	0.007195	0.011519	3.96E-05	0	2.51E-06
40111.66	0	0	0.117588	0.005983	0	0.123572	0.003219	9.26E-05	0
394.6865	972.1397	0	0	0	0	0	0	0	0
13103.39	0	0	0.023078	0	0.002315	0.025393	6.66E-05	0	4.61E-05
147020.3	0	0	0.184841	0	0.073859	0.2587	0.003092	0	0.000351
5971.179	0	0	0.0022	0	0	0.0022	0.0002	0	0
2509.773	11530.77	0	0	0	0	0	0	0	0
1061.524	3223.64	0	5.33E-05	0	0.000123	0.000176	1.73E-05	0	2.21E-06
106.6969	0	0	0.005022	0	5.15E-05	0.005074	1.68E-05	0	4.65E-08
53.82803	0	0	0.023258	0	0	0.023258	0.000578	0	0
6682.119	0	0	0.005602	3.12E-05	0.00306	0.008693	2.26E-05	0	4.26E-06
17509.22	0	0	0.046983	0.014306	0.024244	0.085532	0.000319	1.34E-05	0
252.909	1211.763	0	0	0	0	0	0	0	0
994.8641	0	0	0.001691	3.56E-06	0.000431	0.002125	3.29E-06	0	2.32E-07
364.5194	0	0	0.004167	0.000238	0.000614	0.00502	5.91E-05	3.92E-07	0
1.152621	11.90096	0	0	0	0	0	0	0	0
115.9211	0	0	0.001364	2.78E-05	8.12E-05	0.001473	2.42E-06	0	1.19E-07
2525.522	0	0	0.014643	0.004306	0.001853	0.020802	5.32E-05	2.09E-06	0
449.9011	1231.482	0	0	0	0	0	0	0	0

22.00418	0	0	5.72E-06	8.62E-06	0	1.43E-05	1.22E-07	2.40E-08	0
88.50158	0	0	0.000211	0	8.67E-05	0.000298	1.30E-06	0	8.49E-08
79.90221	0	0	0.000872	0	0	0.000872	1.59E-05	0	0
5.700315	111.1587	0	0	0	0	0	0	0	0

ption, kWh/day for Energy Consumption, kg/day for Hydrogen Consumption

PM2.5_TO	PM2.5_PM	PM2.5_PM	PM2.5_TO	PM10_RU	PM10_IDLI	PM10_STR	PM10_TOT	PM10_PM	PM10_PM
7.40E-08	1.12E-07	8.01E-07	9.87E-07	6.54E-08	0	1.51E-08	8.05E-08	4.48E-07	2.29E-06
0.012803	0.006827	0.020269	0.039899	0.013261	0.000121	0	0.013382	0.027308	0.05791
0	1.26E-05	2.17E-05	3.43E-05	0	0	0	0	5.05E-05	6.20E-05
2.40E-06	1.53E-05	8.64E-05	0.000104	2.04E-06	5.74E-07	0	2.61E-06	6.13E-05	0.000247
0.006607	0.004108	0.003782	0.014498	0.0065	0	0.000667	0.007166	0.016433	0.010807
0.000239	1.63E-05	1.55E-05	0.000271	0.00025	0	0	0.00025	6.53E-05	4.42E-05
0	0.000647	0.00025	0.000897	0	0	0	0	0.00259	0.000713
0.000108	0.000153	6.32E-05	0.000323	0.000103	0	1.45E-05	0.000117	0.00061	0.000181
0.001272	0.000598	0.0007	0.00257	0.001201	0	0.000179	0.001379	0.002393	0.001999
1.04E-05	8.26E-08	1.08E-07	1.06E-05	1.08E-05	0	0	1.08E-05	3.31E-07	3.09E-07
0	4.91E-06	1.89E-06	6.80E-06	0	0	0	0	1.97E-05	5.40E-06
8.99E-07	1.51E-06	6.22E-07	3.04E-06	8.74E-07	0	1.04E-07	9.78E-07	6.06E-06	1.78E-06
0.004451	0.002986	0.003288	0.010726	0.00439	0	0.000445	0.004835	0.011944	0.009395
2.48E-05	5.93E-06	6.58E-06	3.73E-05	2.59E-05	0	0	2.59E-05	2.37E-05	1.88E-05
0	8.26E-05	3.18E-05	0.000114	0	0	0	0	0.00033	9.07E-05
2.59E-05	4.66E-05	1.92E-05	9.17E-05	2.51E-05	0	3.13E-06	2.82E-05	0.000186	5.48E-05
0.000333	0.000294	0.004019	0.004646	0.000332	0	2.98E-05	0.000362	0.001178	0.011484
0.010521	0.000622	0.00566	0.016803	0.010797	0.0002	0	0.010997	0.002488	0.016172
0	3.64E-06	2.48E-05	2.85E-05	0	0	0	0	1.46E-05	7.10E-05
4.21E-05	5.62E-05	0.000895	0.000994	4.31E-05	0	2.73E-06	4.58E-05	0.000225	0.002558
0.003311	0.000363	0.003849	0.007523	0.003364	9.68E-05	0	0.003461	0.00145	0.010997
0	3.40E-06	2.71E-05	3.05E-05	0	0	0	0	1.36E-05	7.73E-05
0.000113	3.50E-05	0.000147	0.000295	7.11E-05	0	4.90E-05	0.00012	0.00014	0.00042
0.003444	0.00224	0.002575	0.008259	0.003361	0	0.000382	0.003743	0.008962	0.007356
0.0002	0.000102	0.000112	0.000413	0.000209	0	0	0.000209	0.000408	0.000319
0	5.90E-05	2.27E-05	8.16E-05	0	0	0	0	0.000236	6.48E-05
1.95E-05	2.84E-05	1.17E-05	5.96E-05	1.88E-05	0	2.40E-06	2.12E-05	0.000114	3.35E-05
1.69E-05	2.72E-05	0.000143	0.000187	1.83E-05	0	5.06E-08	1.84E-05	0.000109	0.000408
0.000578	1.82E-05	7.15E-05	0.000668	0.000604	0	0	0.000604	7.29E-05	0.000204
2.68E-05	4.81E-05	0.000253	0.000328	2.45E-05	0	4.63E-06	2.92E-05	0.000193	0.000723
0.000333	0.000192	0.001009	0.001534	0.000334	1.40E-05	0	0.000348	0.000769	0.002883
0	3.07E-06	8.08E-06	1.11E-05	0	0	0	0	1.23E-05	2.31E-05
3.52E-06	1.21E-05	6.32E-05	7.88E-05	3.58E-06	0	2.52E-07	3.83E-06	4.83E-05	0.000181
5.94E-05	5.91E-06	3.85E-05	0.000104	6.17E-05	4.10E-07	0	6.21E-05	2.37E-05	0.00011
0	2.99E-08	7.82E-08	1.08E-07	0	0	0	0	1.19E-07	2.23E-07
2.54E-06	2.72E-06	2.14E-05	2.66E-05	2.63E-06	0	1.29E-07	2.76E-06	1.09E-05	6.11E-05
5.53E-05	1.13E-05	5.91E-05	0.000126	5.56E-05	2.19E-06	0	5.78E-05	4.51E-05	0.000169
0	3.24E-06	8.52E-06	1.18E-05	0	0	0	0	1.29E-05	2.43E-05

1.46E-07	1.08E-07	5.66E-07	8.19E-07	1.32E-07	2.61E-08	0	1.58E-07	4.32E-07	1.62E-06
1.38E-06	2.93E-06	3.89E-05	4.32E-05	1.41E-06	0	9.23E-08	1.50E-06	1.17E-05	0.000111
1.59E-05	1.85E-05	7.93E-05	0.000114	1.66E-05	0	0	1.66E-05	7.42E-05	0.000227
0	6.33E-07	1.35E-06	1.99E-06	0	0	0	0	2.53E-06	3.87E-06

PM10_TOT	CO2_RUNE	CO2_IDLEX	CO2_STRE	CO2_TOTE	CH4_RUNE	CH4_IDLEX	CH4_STRE	CH4_TOTE	N2O_RUNI
2.82E-06	0.054566	0	0.000587	0.055153	5.47E-06	0	3.89E-10	5.47E-06	5.28E-06
0.0986	1147.301	96.85055	0	1244.151	0.000469	0.002027	0	0.002495	0.304159
0.000112	0	0	0	0	0	0	0	0	0
0.000311	2.234326	0.248328	0	2.482654	0.006894	0.001662	0	0.008555	0.00068
0.034406	631.3409	0	21.45165	652.7925	0.017092	0	0.017067	0.034158	0.015695
0.000359	2.128106	0	0	2.128106	1.80E-05	0	0	1.80E-05	0.002586
0.003303	0	0	0	0	0	0	0	0	0
0.000908	9.108407	0	0.436468	9.544875	3.59E-05	0	0.000203	0.000239	6.99E-05
0.005771	109.402	0	4.409422	113.8114	0.004829	0	0.005386	0.010215	0.005325
1.15E-05	0.018126	0	0	0.018126	6.35E-07	0	0	6.35E-07	2.09E-06
2.51E-05	0	0	0	0	0	0	0	0	0
8.81E-06	0.096821	0	0.004421	0.101241	3.81E-07	0	1.86E-06	2.24E-06	7.42E-07
0.026174	544.8714	0	18.43945	563.3109	0.010485	0	0.012936	0.023421	0.011862
6.84E-05	0.966373	0	0	0.966373	2.51E-06	0	0	2.51E-06	0.001142
0.000421	0	0	0	0	0	0	0	0	0
0.000269	2.935171	0	0.145003	3.080174	1.16E-05	0	5.89E-05	7.04E-05	2.25E-05
0.013023	131.8685	0.573397	1.780822	134.2227	0.002353	0.000269	0.002773	0.005396	0.003082
0.029656	131.359	0.965872	0	132.3249	0.00217	3.62E-05	0	0.002206	0.054087
8.55E-05	0	0	0	0	0	0	0	0	0
0.002829	26.15829	0.110778	0.300944	26.57001	0.000241	4.03E-05	0.000466	0.000747	0.000375
0.015909	89.65037	0.723182	0	90.37355	0.000769	1.79E-05	0	0.000787	0.043149
9.09E-05	0	0	0	0	0	0	0	0	0
0.00068	6.92987	0	0.775896	7.705767	0.007036	0	0.003211	0.010248	0.001552
0.020061	508.1907	0	17.65722	525.8479	0.01097	0	0.014475	0.025445	0.013358
0.000936	21.04446	0	0	21.04446	2.30E-05	0	0	2.30E-05	0.020016
0.000301	0	0	0	0	0	0	0	0	0
0.000168	1.805666	0	0.111666	1.917331	7.12E-06	0	3.62E-05	4.33E-05	1.38E-05
0.000535	17.61945	0	0.003711	17.62316	0.000169	0	3.62E-06	0.000172	0.000285
0.000881	4.924201	0	0	4.924201	3.20E-05	0	0	3.20E-05	0.001121
0.000945	27.80169	0.192471	0.329591	28.32375	0.00021	4.62E-05	0.000333	0.00059	0.000336
0.004	72.6074	3.720271	0	76.32767	4.33E-05	1.58E-05	0	5.90E-05	0.024877
3.54E-05	0	0	0	0	0	0	0	0	0
0.000233	7.248862	0.020986	0.034394	7.304241	4.91E-05	5.30E-06	3.86E-05	9.31E-05	9.88E-05
0.000196	2.734213	0.076742	0	2.810956	1.35E-05	1.22E-06	0	1.47E-05	0.000719
3.43E-07	0	0	0	0	0	0	0	0	0
7.47E-05	1.095584	0.081565	0.008259	1.185408	5.18E-05	4.32E-05	1.17E-05	0.000107	6.38E-05
0.000272	4.29938	0.439743	0	4.739123	1.21E-05	1.51E-06	0	1.36E-05	0.00097
3.73E-05									

[illegible]

[illegible]

[illegible]

1.80E-06	0.000105	2.35E-05		0	0.000129		0	0	0.000129	0.000322
8.98E-05	2.04E-05		0	5.92E-05	7.96E-05	1.02E-05	2.54E-06	9.10E-06	0.000101	0.000553
0.000153	0.000174		0	0	0.000174		0	0	0.000174	0.000179
	0	0	0	0	0		0	0	0	0

