

Appendix B:
**Air Quality, Greenhouse Gas Emissions, and Energy Supporting
Information**

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Air Quality and Health Risk Assessment

Supporting Information

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Project Number: 5640.0003
Official Project Name: Glider Residential Project
Address: 511 Cozy Drive
City: San Jose
County: Santa Clara

CEC Electricity Demand
Forecast Zone (EDFZ)
Electric Utility Provider:

1

Air District: Bay Area AQMD
Air Basin: San Francisco Bay Area

Construction Start Date: 6/1/2026
Monday
Working Days per Week: 5

Demolition? No

Soil Import/Export? Yes

Operational Start Date/Year: 2027
Emergency Generator? No
All-Electric Project? Yes

5640.0003 - Glider Residential Project								Description
Land use	Subtype	Unit	Number or Size	Lot Acreage	Building SF	Landscaping (sq ft)	Special Landscaping (ft)	
Residential	Single Family Housing	Dwelling Units	80	6.74	180,160	159,989	7,652	landscaping = Site Area - Bldg Footprint - Driveways
Recreational	City Park	1,000	29.655	0.68		29,655		from plan set , conservatively assume all landscaping
Parking	Other Asphalt Surfaces	1,000 sqft	91.028	2.09				right-of-way, conservatively assume it is all pavement
Total				9.51	180,160	189,644	7,652	

Construction Construction Phases	Phase Name	Phase Type	Start Date	End Date	Acres <=	10	Modeled Work Days	Override Default / Notes
					Days Per Week	CalEEMod Default Work Days		
	Demolition	Demolition	6/1/2026	6/30/2026	5	20	22	per applicant schedule
	Site Preparation	Site Preparation	7/1/2026	7/8/2026	5	10	6	per applicant schedule
	Grading	Grading	7/9/2026	1/6/2027	5	20	130	per applicant schedule
	Building Construction	Building Construction	11/9/2026	11/17/2028	5	230	530	per applicant schedule
	Paving	Paving	1/4/2027	1/7/2027	5	20	4	per applicant schedule
	Architectural Coating	Architectural Coating	10/23/2028	11/17/2028	5	20	20	assume same as default - last 20 days of blg construction

Construction Off-Road Equipment Emission Factors	Construction Off-Road Equipment	Changes to Defaults	
	Demolition		
	Site Preparation	see conservation of hp-hour page for adjustments	
	Grading	all construction hp-hours > than CalEEMod defaults	
	Building Construction		
	Paving		
	Architectural Coating		

Construction Material Movement	Water Disturbed Area: Activate	2	times per day	
	Phase Type	Size Metric	Import	Export
	Site Preparation	CY		
	Grading	CY		480

Construction Demolition	Water Demolished Area: x Times Per Day	
	Construction Demolition	Amount
	tons of debris	9,425

Construction Trips and VMT (Edits only)	Construction Activity	Add'l One-Way Trips/Day	Trip Type	Trip Length	Vehicle Class
		6	Vendor	default	HHDT
	Site Preparation		Vendor	default	HHDT
	Paving	150	Vendor	default	HHDT

Note: VOC Content (g/L) (left side of column on caleemod page) is based on district rule and regulations and is not edited. the interior/exterior area sqft as shown below is for the right side of the columns in CalEEMOD.

Construction Architectural Coatings	Construction Activity	Interior Area (sq ft)		Exterior Area (sq ft)		Notes
		Residential	Non-Residential	Residential	Non-Residential	
	Architectural Coating	default	default	default	default	Not Applicable

Construction Paved Area	Construction Activity	Paved Area Acres	% Asphalt	VOC Off-gassing Emission Factor
	Single Family Housing	default	default	default
	City Park	default	default	default
	Other Asphalt Surfaces	default	default	default

Construction Electricity	Construction Year	GHG Intensity Factor lb/MW/hr			Construction Electricity kW/hr
		CO2	CH4	N2O	
	2026	default	default	default	0
	2027	default	default	default	0
	2028	default	default	default	
	2029	default	default	default	

Glider Residential Project Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Glider Residential Project
Construction Start Date	6/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	12.4
Location	511 Cozy Dr, San Jose, CA 95123, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1923
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.25

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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Single Family Housing	80.0	Dwelling Unit	6.74	180,160	159,989	7,625	239	Landscaping (159,989 SF)= Lots (293,589 SF) - Footprint (95,200 SF) - Driveways(80 x 480)
City Park	29.7	Acre	0.68	0.00	29,655	29,655	—	from plan set
Other Asphalt Surfaces	91.0	1000sqft	2.09	0.00	0.00	0.00	—	right-of-way, conservatively assume it is all pavement

2. Emissions Summary

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	6.39	5.37	49.2	49.9	0.08	2.08	13.1	15.1	1.92	6.63	8.55	—	11,073	11,073	0.74	1.24	16.1	11,478
2027	0.72	0.60	5.02	7.63	0.01	0.17	0.30	0.47	0.16	0.07	0.23	—	1,658	1,658	0.07	0.05	1.29	1,677
2028	0.70	0.58	4.77	7.56	0.01	0.15	0.30	0.45	0.14	0.07	0.21	—	1,649	1,649	0.06	0.04	1.15	1,665
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.17	0.97	8.19	11.3	0.02	0.31	0.95	1.26	0.29	0.35	0.64	—	2,354	2,354	0.10	0.07	0.05	2,377
2027	3.94	3.23	21.6	25.2	0.06	0.64	2.24	2.88	0.59	0.70	1.29	—	8,434	8,434	0.57	0.79	0.28	8,684
2028	129	129	5.62	8.70	0.02	0.17	0.35	0.51	0.15	0.08	0.24	—	1,809	1,809	0.07	0.05	0.03	1,827
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.54	0.42	4.17	4.35	0.01	0.15	0.96	1.12	0.14	0.30	0.44	—	1,234	1,234	0.07	0.09	0.57	1,262

2027	0.55	0.46	3.78	5.53	0.01	0.13	0.23	0.36	0.12	0.06	0.18	—	1,249	1,249	0.05	0.05	0.44	1,264
2028	7.47	7.39	3.06	4.74	0.01	0.10	0.19	0.29	0.09	0.05	0.13	—	1,040	1,040	0.04	0.03	0.32	1,050
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.10	0.08	0.76	0.79	< 0.005	0.03	0.18	0.20	0.03	0.06	0.08	—	204	204	0.01	0.01	0.09	209
2027	0.10	0.08	0.69	1.01	< 0.005	0.02	0.04	0.07	0.02	0.01	0.03	—	207	207	0.01	0.01	0.07	209
2028	1.36	1.35	0.56	0.87	< 0.005	0.02	0.03	0.05	0.02	0.01	0.02	—	172	172	0.01	0.01	0.05	174

2.3. Construction Emissions by Year, Mitigated

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	1.23	1.18	25.2	49.1	0.08	0.30	13.1	13.2	0.28	6.63	6.80	—	11,073	11,073	0.74	1.24	16.1	11,478
2027	0.33	0.29	5.09	8.57	0.01	0.06	0.30	0.36	0.06	0.07	0.13	—	1,658	1,658	0.07	0.05	1.29	1,677
2028	0.32	0.29	5.07	8.50	0.01	0.06	0.30	0.36	0.06	0.07	0.13	—	1,649	1,649	0.06	0.04	1.15	1,665
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.63	0.55	8.09	12.4	0.02	0.14	0.95	1.09	0.13	0.35	0.49	—	2,354	2,354	0.10	0.07	0.05	2,377
2027	2.79	2.32	22.0	26.9	0.06	0.28	2.24	2.52	0.27	0.70	0.97	—	8,434	8,434	0.57	0.79	0.28	8,684
2028	128	128	6.18	9.49	0.02	0.09	0.35	0.44	0.09	0.08	0.17	—	1,809	1,809	0.07	0.05	0.03	1,827
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.23	0.18	3.26	4.42	0.01	0.05	0.96	1.02	0.05	0.30	0.36	—	1,234	1,234	0.07	0.09	0.57	1,262
2027	0.26	0.23	3.84	6.21	0.01	0.05	0.23	0.28	0.04	0.06	0.10	—	1,249	1,249	0.05	0.05	0.44	1,264
2028	7.22	7.20	3.27	5.33	0.01	0.04	0.19	0.23	0.04	0.05	0.08	—	1,040	1,040	0.04	0.03	0.32	1,050
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.03	0.59	0.81	< 0.005	0.01	0.18	0.19	0.01	0.06	0.06	—	204	204	0.01	0.01	0.09	209

2027	0.05	0.04	0.70	1.13	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	207	207	0.01	0.01	0.07	209
2028	1.32	1.31	0.60	0.97	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	172	172	0.01	0.01	0.05	174

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	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	6.10	6.10	—	0.92	0.92	—	—	—	—	—	—	—
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	0.16	0.14	1.24	1.15	< 0.005	0.05	—	0.05	0.05	—	0.05	—	207	207	0.01	< 0.005	—	207
Demolition	—	—	—	—	—	—	0.37	0.37	—	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	0.03	0.03	0.23	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	—	34.3

Demolition	—	—	—	—	—	—	0.07	0.07	—	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	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	126	126	< 0.005	< 0.005	0.46	128
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	0.77	0.16	9.25	4.55	0.05	0.09	1.99	2.08	0.09	0.54	0.64	—	7,520	7,520	0.60	1.21	15.7	7,911
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.12	7.12	< 0.005	< 0.005	0.01	7.22
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	0.05	0.01	0.58	0.28	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	453	453	0.04	0.07	0.41	476
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
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	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	75.1	75.1	0.01	0.01	0.07	78.9

3.2. Demolition (2026) - Mitigated

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	0.41	0.41	11.9	18.2	0.03	0.20	—	0.20	0.19	—	0.19	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	6.10	6.10	—	0.92	0.92	—	—	—	—	—	—	—
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	0.02	0.02	0.72	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	207	207	0.01	< 0.005	—	207
Demolition	—	—	—	—	—	—	0.37	0.37	—	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	< 0.005	< 0.005	0.13	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Demolition	—	—	—	—	—	—	0.07	0.07	—	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	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	126	126	< 0.005	< 0.005	0.46	128
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	0.77	0.16	9.25	4.55	0.05	0.09	1.99	2.08	0.09	0.54	0.64	—	7,520	7,520	0.60	1.21	15.7	7,911

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.12	7.12	< 0.005	< 0.005	0.01	7.22
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	0.05	0.01	0.58	0.28	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	453	453	0.04	0.07	0.41	476
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
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	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	75.1	75.1	0.01	0.01	0.07	78.9

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	6.28	5.27	49.0	48.6	0.08	2.08	—	2.08	1.92	—	1.92	—	8,927	8,927	0.36	0.07	—	8,957
Dust From Material Movement	—	—	—	—	—	—	12.8	12.8	—	6.57	6.57	—	—	—	—	—	—	—
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	0.10	0.09	0.80	0.80	< 0.005	0.03	—	0.03	0.03	—	0.03	—	147	147	0.01	< 0.005	—	147
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
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	0.02	0.02	0.15	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.3	24.3	< 0.005	< 0.005	—	24.4
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	1.14	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	252	252	< 0.005	0.01	0.92	256
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	133	133	0.01	0.02	0.32	139
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.88	3.88	< 0.005	< 0.005	0.01	3.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.18	2.18	< 0.005	< 0.005	< 0.005	2.28

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	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.65
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.36	0.36	< 0.005	< 0.005	< 0.005	0.38
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

3.4. Site Preparation (2026) - Mitigated

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	1.08	1.08	24.9	47.9	0.08	0.17	—	0.17	0.17	—	0.17	—	8,927	8,927	0.36	0.07	—	8,957
Dust From Material Movement	—	—	—	—	—	—	12.8	12.8	—	6.57	6.57	—	—	—	—	—	—	—
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	0.02	0.02	0.41	0.79	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	147	147	0.01	< 0.005	—	147
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—

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	0.07	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.3	24.3	< 0.005	< 0.005	—	24.4
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	1.14	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	252	252	< 0.005	0.01	0.92	256
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	133	133	0.01	0.02	0.32	139
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.88	3.88	< 0.005	< 0.005	0.01	3.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.18	2.18	< 0.005	< 0.005	< 0.005	2.28
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	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.65
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.36	0.36	< 0.005	< 0.005	< 0.005	0.38
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	0.37	0.31	2.81	3.27	0.01	0.12	—	0.12	0.11	—	0.11	—	555	555	0.02	< 0.005	—	557
Dust From Material Movement	—	—	—	—	—	—	0.52	0.52	—	0.25	0.25	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.31	2.81	3.27	0.01	0.12	—	0.12	0.11	—	0.11	—	555	555	0.02	< 0.005	—	557
Dust From Material Movement	—	—	—	—	—	—	0.52	0.52	—	0.25	0.25	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.97	1.13	< 0.005	0.04	—	0.04	0.04	—	0.04	—	191	191	0.01	< 0.005	—	192
Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.09	0.09	—	—	—	—	—	—	—

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	0.02	0.02	0.18	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.6	31.6	< 0.005	< 0.005	—	31.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	126	126	< 0.005	< 0.005	0.46	128
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	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.4	32.4	< 0.005	0.01	0.07	34.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	117	117	< 0.005	0.01	0.01	118
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	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.4	32.4	< 0.005	0.01	< 0.005	34.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.7	40.7	< 0.005	< 0.005	0.07	41.3
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	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.01	11.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.74	6.74	< 0.005	< 0.005	0.01	6.83
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.85	1.85	< 0.005	< 0.005	< 0.005	1.94
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3.6. Grading (2026) - Mitigated

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	0.25	0.22	2.86	3.39	0.01	0.08	—	0.08	0.07	—	0.07	—	555	555	0.02	< 0.005	—	557
Dust From Material Movement	—	—	—	—	—	—	0.52	0.52	—	0.25	0.25	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.22	2.86	3.39	0.01	0.08	—	0.08	0.07	—	0.07	—	555	555	0.02	< 0.005	—	557
Dust From Material Movement	—	—	—	—	—	—	0.52	0.52	—	0.25	0.25	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.99	1.17	< 0.005	0.03	—	0.03	0.03	—	0.03	—	191	191	0.01	< 0.005	—	192

Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.09	0.09	—	—	—	—	—	—	—
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	0.02	0.01	0.18	0.21	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	31.6	31.6	< 0.005	< 0.005	—	31.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	126	126	< 0.005	< 0.005	0.46	128
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	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.4	32.4	< 0.005	0.01	0.07	34.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	117	117	< 0.005	0.01	0.01	118
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	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.4	32.4	< 0.005	0.01	< 0.005	34.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.7	40.7	< 0.005	< 0.005	0.07	41.3
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	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.01	11.7

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.74	6.74	< 0.005	< 0.005	0.01	6.83
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.85	1.85	< 0.005	< 0.005	< 0.005	1.94

3.7. Grading (2027) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.30	2.67	3.24	0.01	0.11	—	0.11	0.10	—	0.10	—	555	555	0.02	< 0.005	—	557
Dust From Material Movement	—	—	—	—	—	—	0.52	0.52	—	0.25	0.25	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.52	6.52	< 0.005	< 0.005	—	6.54
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	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.08	1.08	< 0.005	< 0.005	—	1.08
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.01	116
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	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	0.01	< 0.005	33.2
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	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.38
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.39
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.23
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06

3.8. Grading (2027) - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.21	2.80	3.36	0.01	0.08	—	0.08	0.07	—	0.07	—	555	555	0.02	< 0.005	—	557
Dust From Material Movement	—	—	—	—	—	—	0.52	0.52	—	0.25	0.25	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.52	6.52	< 0.005	< 0.005	—	6.54
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	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.08	1.08	< 0.005	< 0.005	—	1.08
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
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Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.01	116
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	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	0.01	< 0.005	33.2
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	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.38
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.39
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.23
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06

3.9. Building Construction (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.64	0.54	4.93	6.48	0.01	0.19	—	0.19	0.17	—	0.17	—	1,199	1,199	0.05	0.01	—	1,203
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.51	0.67	< 0.005	0.02	—	0.02	0.02	—	0.02	—	124	124	0.01	< 0.005	—	125
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	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.6	20.6	< 0.005	< 0.005	—	20.7
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.94	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	224	224	0.01	0.01	0.02	227
Vendor	0.02	0.01	0.30	0.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	227	227	0.01	0.03	0.01	237
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.5	23.5	< 0.005	< 0.005	0.04	23.9
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.5	23.5	< 0.005	< 0.005	0.02	24.6
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.89	3.89	< 0.005	< 0.005	0.01	3.95

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.89	3.89	< 0.005	< 0.005	< 0.005	4.07
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

3.10. Building Construction (2026) - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.21	4.76	7.41	0.01	0.06	—	0.06	0.06	—	0.06	—	1,199	1,199	0.05	0.01	—	1,203
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.49	0.77	< 0.005	0.01	—	0.01	0.01	—	0.01	—	124	124	0.01	< 0.005	—	125
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	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.6	20.6	< 0.005	< 0.005	—	20.7
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.94	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	224	224	0.01	0.01	0.02	227
Vendor	0.02	0.01	0.30	0.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	227	227	0.01	0.03	0.01	237
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.5	23.5	< 0.005	< 0.005	0.04	23.9
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.5	23.5	< 0.005	< 0.005	0.02	24.6
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.89	3.89	< 0.005	< 0.005	0.01	3.95
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.89	3.89	< 0.005	< 0.005	< 0.005	4.07
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

3.11. Building Construction (2027) - Unmitigated

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

Location	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	0.62	0.51	4.70	6.47	0.01	0.17	—	0.17	0.15	—	0.15	—	1,199	1,199	0.05	0.01	—	1,203
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.62	0.51	4.70	6.47	0.01	0.17	—	0.17	0.15	—	0.15	—	1,199	1,199	0.05	0.01	—	1,203
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.35	4.62	0.01	0.12	—	0.12	0.11	—	0.11	—	856	856	0.03	0.01	—	859
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	0.08	0.07	0.61	0.84	< 0.005	0.02	—	0.02	0.02	—	0.02	—	142	142	0.01	< 0.005	—	142
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	0.09	0.08	0.06	1.03	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	238	238	< 0.005	0.01	0.80	241
Vendor	0.02	0.01	0.27	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	222	222	0.01	0.03	0.49	233
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	0.88	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	220	220	0.01	0.01	0.02	223
Vendor	0.02	0.01	0.28	0.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	222	222	0.01	0.03	0.01	232
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.62	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	159	159	< 0.005	0.01	0.25	161
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	159	159	0.01	0.02	0.15	166

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	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.3	26.3	< 0.005	< 0.005	0.04	26.7
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.3	26.3	< 0.005	< 0.005	0.02	27.5
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

3.12. Building Construction (2027) - Mitigated

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	0.22	0.21	4.76	7.41	0.01	0.06	—	0.06	0.06	—	0.06	—	1,199	1,199	0.05	0.01	—	1,203
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.21	4.76	7.41	0.01	0.06	—	0.06	0.06	—	0.06	—	1,199	1,199	0.05	0.01	—	1,203
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.15	3.40	5.29	0.01	0.04	—	0.04	0.04	—	0.04	—	856	856	0.03	0.01	—	859
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	0.03	0.03	0.62	0.97	< 0.005	0.01	—	0.01	0.01	—	0.01	—	142	142	0.01	< 0.005	—	142
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	0.09	0.08	0.06	1.03	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	238	238	< 0.005	0.01	0.80	241
Vendor	0.02	0.01	0.27	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	222	222	0.01	0.03	0.49	233
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	0.88	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	220	220	0.01	0.01	0.02	223
Vendor	0.02	0.01	0.28	0.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	222	222	0.01	0.03	0.01	232
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.62	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	159	159	< 0.005	0.01	0.25	161
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	159	159	0.01	0.02	0.15	166
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	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.3	26.3	< 0.005	< 0.005	0.04	26.7
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.3	26.3	< 0.005	< 0.005	0.02	27.5
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

3.13. Building Construction (2028) - Unmitigated

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

Location	TOC	Attachment A	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	Page 29	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	4.46	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,199	1,199	0.05	0.01	—	1,203
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	4.46	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,199	1,199	0.05	0.01	—	1,203
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.31	2.81	4.08	0.01	0.09	—	0.09	0.09	—	0.09	—	755	755	0.03	0.01	—	758
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	0.07	0.06	0.51	0.74	< 0.005	0.02	—	0.02	0.02	—	0.02	—	125	125	0.01	< 0.005	—	125
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	0.09	0.08	0.05	0.97	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	234	234	< 0.005	< 0.005	0.72	235
Vendor	0.02	0.01	0.25	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	217	217	0.01	0.03	0.43	227
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	0.82	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	216	216	0.01	0.01	0.02	219
Vendor	0.02	0.01	0.27	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	217	217	0.01	0.03	0.01	227
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.51	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	138	138	< 0.005	0.01	0.19	140
Vendor	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	137	137	0.01	0.02	0.12	143
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	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	22.8	22.8	< 0.005	< 0.005	0.03	23.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.6	22.6	< 0.005	< 0.005	0.02	23.6
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

3.14. Building Construction (2028) - Mitigated

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	0.22	0.21	4.76	7.41	0.01	0.06	—	0.06	0.06	—	0.06	—	1,199	1,199	0.05	0.01	—	1,203
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.22	0.21	4.76	7.41	0.01	0.06	—	0.06	0.06	—	0.06	—	1,199	1,199	0.05	0.01	—	1,203
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.13	3.00	4.67	0.01	0.04	—	0.04	0.04	—	0.04	—	755	755	0.03	0.01	—	758
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	0.02	0.02	0.55	0.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	125	125	0.01	< 0.005	—	125
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	0.09	0.08	0.05	0.97	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	234	234	< 0.005	< 0.005	0.72	235
Vendor	0.02	0.01	0.25	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	217	217	0.01	0.03	0.43	227
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	0.82	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	216	216	0.01	0.01	0.02	219
Vendor	0.02	0.01	0.27	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	217	217	0.01	0.03	0.01	227
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.51	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	138	138	< 0.005	0.01	0.19	140
Vendor	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	137	137	0.01	0.02	0.12	143

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	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	22.8	22.8	< 0.005	< 0.005	0.03	23.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.6	22.6	< 0.005	< 0.005	0.02	23.6
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

3.15. Paving (2027) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.37	1.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.6	16.6	< 0.005	< 0.005	—	16.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.74	2.74	< 0.005	< 0.005	—	2.75

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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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.01	116
Vendor	0.53	0.14	6.80	3.57	0.03	0.06	1.17	1.22	0.06	0.32	0.38	—	4,466	4,466	0.41	0.71	0.22	4,687
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
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	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.29
Vendor	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	48.9	48.9	< 0.005	0.01	0.04	51.4
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	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.21
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.10	8.10	< 0.005	< 0.005	0.01	8.50
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

3.16. Paving (2027) - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	7.21	10.6	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.37	1.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.6	16.6	< 0.005	< 0.005	—	16.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.74	2.74	< 0.005	< 0.005	—	2.75
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.01	116
Vendor	0.53	0.14	6.80	3.57	0.03	0.06	1.17	1.22	0.06	0.32	0.38	—	4,466	4,466	0.41	0.71	0.22	4,687
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
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	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.29
Vendor	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	48.9	48.9	< 0.005	0.01	0.04	51.4
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	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.21
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.10	8.10	< 0.005	< 0.005	0.01	8.50
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

3.17. Architectural Coating (2028) - Unmitigated

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

Location	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	128	128	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architect ural Coatings	7.02	7.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	1.28	1.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.3	43.3	< 0.005	< 0.005	< 0.005	43.9
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
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	—	2.40	2.40	< 0.005	< 0.005	< 0.005	2.43
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	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.40
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

3.18. Architectural Coating (2028) - Mitigated

Attachment A

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	1.07	0.96	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	128	128	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architect ural Coatings	7.02	7.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architect ural Coatings	1.28	1.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	Attachment A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Page 38	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.3	43.3	< 0.005	< 0.005	< 0.005	43.9
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
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	—	2.40	2.40	< 0.005	< 0.005	< 0.005	2.43
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	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.40
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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/1/2026	6/30/2026	5.00	22.0	per applicant schedule
Site Preparation	Site Preparation	7/1/2026	7/8/2026	5.00	6.00	per applicant schedule
Grading	Grading	7/9/2026	1/6/2027	5.00	130	per applicant schedule
Building Construction	Building Construction	11/9/2026	11/17/2028	5.00	530	per applicant schedule
Paving	Paving	1/4/2027	1/7/2027	5.00	4.00	per applicant schedule

Architectural Coating	Architectural Coating	10/23/2028	11/17/2028	5.00	20.0	assume same as default - last 20 days of big construction
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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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	5.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	7.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	1.50	148	0.41
Grading	Excavators	Diesel	Average	1.00	1.50	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	1.50	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	1.50	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	4.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	4.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	3.50	367	0.29
Building Construction	Welders	Diesel	Average	1.00	4.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	3.50	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Interim	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	5.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	7.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Interim	1.00	1.50	148	0.41
Grading	Excavators	Diesel	Tier 4 Interim	1.00	1.50	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.00	1.50	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	1.50	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	4.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	4.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	3.50	367	0.29
Building Construction	Welders	Diesel	Tier 4 Interim	1.00	4.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.00	3.50	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Interim	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	107	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	30.0	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	5.00	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	0.46	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	28.8	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	8.55	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	150	8.40	HHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	5.76	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	107	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	30.0	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	5.00	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	0.46	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	28.8	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	8.55	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	150	8.40	HHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	5.76	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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	364,824	121,608	0.00	0.00	5,462

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	9,425	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	480	244	0.00	—
Paving	0.00	0.00	0.00	0.00	2.97

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	0.88	0%
City Park	0.00	0%
Other Asphalt Surfaces	2.09	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	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Land Use	from plan set Special Landscaping = Bioretention Pond Assume Conservatively City Park = 100% landscaping
Construction: Construction Phases	per applicant schedule
Construction: Off-Road Equipment	Adjusted schedule from client, Equipment Hours adjusted to conserve hp-hrs
Construction: Trips and VMT	Added trips during site prep for removal of 57 trees Added trips for asphalt delivery during paving of right-of-way plus driveways
Construction: Dust From Material Movement	per site grading plan

Glider Residential Project
Demolition Debris Calculations

Parameters¹			
1	building st	10	cf building volume
1	cf building volume	0.25	cf waste volume
1	cf	0.037	cy
1	cy waste volume	0.5	ton waste weight
1	sf	0.04625	ton waste material

Description	square feet²	height/ depth (ft)³	density (lbs/cf)⁴	Demo Amount (lbs)	Demolition Amount tons)
Buildings	54,336	-	-	-	2,513
Pavement	184,322	0.5	150	13,824,150	6,912
Totals	238,658	-	-	-	9,425

Notes:

cy = cubic yard

gsf = gross square feet

sf = square feet

cf = cubic feet

¹ Source: California Air Pollution Control Officers Association (CAPCOA). 2017. Appendix A Calculation Details for CalEEMod. October.

² Source: Google Maps

³ Source: DC Construction Services. 2017. How Thick Is Parking Lot Asphalt? Website: <https://dccpaving.com/how-thick-is-parking-lot-asphalt/>.

⁴ Source: SFGate. 2019. How to Calculate Asphalt Weight Per Yard. Website: <https://homeguides.sfgate.com/calculate-asphalt-weight-per-yard-81825.html>.

Glider Residential Project
Site Preparation - Tree Removal Haul

Number of Trees to Be Removed	57
Volume Factor	2.67 CY/tree
Volume Tree Removal	152 CY
Capacity per vendor truck	10 CY
Truckloads Required	15
Trips (2 per truck load)	30
Days in Site Prep Phase	6
One-way Vendor Trips per day	5

Federal Emergency Management Agency (FEMA) , 2007. FEMA - Bulletin 325, Public Assistance
Debris Management Guide, July.

15 trees, 8 inch in diameter = 40 CY (average)

Glider Residential Project
Asphalt Paving Construction Trips Calculation

Right of Way Area (sf)	91,028
Driveways (80 x 480 SF per driveway)	38,400
Total Paved Area (square feet)	129,428
Asphalt volume (cube feet) assume 6 inch pavement	64,714
Asphalt volume (cy)	2,397
Capacity per vendor truck (CY per truck)	16
Trips	299.60
Days in paving phase	4
One-way Vendor Trips per day	150
 Total Daily Trips during Paving Phase	 150

Glider Residential Project - Horsepower-Hour Conservation Calculation Sheet

	Activity Duration		Difference
	CalEEMod Defaults	Revisions	
Demolition	20	22	2
Site Preparation	10	6	-4
Grading	20	130	110
Building Construction	230	530	300
Paving	20	4	-16
Architectural Coating	20	20	0
Total Working Days	320	712	392

CalEEMod Defaults						Revisions						Cross-Check	
Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours	Equipment	Amount	Usage Hours	Horsepower	Load Factor	HP Hours	Goal HP Hours	Difference
Demolition													
Concrete/Industrial Saws	1	8	33	0.73	3,854	Concrete/Industrial Saws	1	8	33	0.73	4,240	3,854	(385)
Rubber Tired Dozers	2	8	367	0.4	46,976	Rubber Tired Dozers	2	8	367	0.4	51,674	46,976	(4,698)
Excavators	3	8	36	0.38	6,566	Excavators	3	8	36	0.38	7,223	6,566	(657)
Tractors/Loaders/Backhoes	0	8	84	0.37	-	Tractors/Loaders/Backhoes	0	-	84	0.37	-	-	-
Total					57,397	Total					63,136	57,397	(5,740)
Site Preparation													
Tractors/Loaders/Backhoes	4	8	84	0.37	9,946	Tractors/Loaders/Backhoes	7	8	84	0.37	10,443	9,946	(497)
Rubber Tired Dozers	3	8	367	0.4	35,232	Rubber Tired Dozers	5	8	367	0.4	35,232	35,232	-
Graders	0	-	148	0.41	-	Graders	0	-	148	0.41	-	-	-
Scrapers	0	-	423	0.48	-	Scrapers	0	-	423	0.48	-	-	-
Total					45,178	Total					45,675	45,178	(497)
Grading													
Graders	1	8	148	0.41	9,709	Graders	1	1.5	148	0.41	11,833	9,709	(2,124)
Rubber Tired Dozers	1	8	367	0.4	23,488	Rubber Tired Dozers	1	1.5	367	0.4	28,626	23,488	(5,138)
Tractors/Loaders/Backhoes	3	8	84	0.37	14,918	Tractors/Loaders/Backhoes	3	1.5	84	0.37	18,182	14,918	(3,263)
Excavators	1	8	36	0.38	2,189	Excavators	1	1.5	36	0.38	2,668	2,189	(479)
Scrapers	0	-	423	0.48	-	Scrapers	0	-	423	0.48	-	-	-
Total					50,304	Total					61,308	50,304	(11,004)
Building Construction													
Cranes	1	7	367	0.29	171,352	Cranes	1	3.5	367	0.29	197,428	171,352	(26,075)
Forklifts	3	8	82	0.2	90,528	Forklifts	3	4.0	82	0.2	104,304	90,528	(13,776)
Generator Sets	1	8	14	0.74	19,062	Generator Sets	1	4.0	14	0.74	21,963	19,062	(2,901)
Tractors/Loaders/Backhoes	3	7	84	0.37	150,116	Tractors/Loaders/Backhoes	3	3.5	84	0.37	172,960	150,116	(22,844)
Welders	1	8	46	0.45	38,088	Welders	1	4.0	46	0.45	43,884	38,088	(5,796)
Total					469,147	Total					540,539	469,147	(71,392)
Paving													
Cement and Mortar Mixers	0	-	10	0.56	-	Cement and Mortar Mixers	0	-	10	0.56	-	-	-
Pavers	2	8	81	0.42	10,886	Pavers	2	8	81	0.42	2,177	10,886	8,709
Paving Equipment	2	8	89	0.36	10,253	Paving Equipment	2	8	89	0.36	2,051	10,253	8,202
Rollers	2	8	36	0.38	4,378	Rollers	2	8	36	0.38	876	4,378	3,502
Tractors/Loaders/Backhoes	0	-	84	0.37	-	Tractors/Loaders/Backhoes	0	-	84	0.37	-	-	-
Total					25,517	Total					5,103	25,517	20,413
Architectural Coating													
Air Compressors	1	6	37	0.48	2,131	Air Compressors	1	6.0	37	0.48	2,131	2,131	-
Total					2,131	Total					2,131	2,131	-

Validation: **NET PROJECT** (68,219)

Modeled CalEEMod Eqpt HP-hours > CalEEMod Default HP Hrs

Glider Residential Project - San Jose
Health Risk Assessment Inputs
DPM Emissions for AERMOD Inputs - Unmitigated

Net Work Days	645
Net Construction Years	2.46
Total Working Hours	5,160

Construction Year	On-site Construction Activity	On-site PM10E (lbs)	Off-Site PM10E (lbs)	Off-Site PM10E(lbs)		
				Worker	Vendor	Haul
2026	Demolition	18.55	2.08	-	-	2.08
2026	Site Preparation	12.49	0.01	-	0.01	-
2026	Grading	15.23	0.05	-	-	0.05
2027	Grading	0.48			-	0.00
2026	Building Construction	7.17	0.12	-	0.12	-
2026	Building Construction	43.87	0.83	-	0.83	-
2028	Building Construction	34.53	0.73	-	0.73	-
2027	Paving	1.19	0.22	-	0.22	-
2028	Architectural Coating	0.31			-	-
Total PM Exhaust (On-site)		133.82	4.04	-	1.91	2.131

CalEEMod Distance (miles)	11.7	8.4	20
Total Roadways Included within 1,000 ft	1.04	1.04	1.04
Roadway Emissions included	9%	12%	5%

	On-site Construction	Offsite Roadway	Off-Site Diesel PM10E (lbs) within 1,000 ft Roadways		
			Worker	Vendor	Haul
Modeled Emissions (lbs)	133.82	0.348	-	0.24	0.11
Hourly Emissions (lb/hr)	0.0259	0.00007			

Note: PM10E = PM10 Exhaust which is a surrogate for Diesel Exhaust, particulate matter

Source	percentage	Modeling Inputs	
Site Emissions	100%	2.59E-02	lb/hr
Roadway 1 Emissions	38%	2.5E-05	lb/hr
Roadway 2 Emissions	24%	1.6E-05	lb/hr
Roadway 3 Emissions	38%	2.6E-05	lb/hr

Glider Residential Project - San Jose

Health Risk Assessment Inputs

Fine Particulate Matter (PM2.5) Emissions for AERMOD Inputs - Unmitigated

Net Work Days	260
Net Construction Years	1.00
Total Working Hours	2,080

Construction Year	On-site Construction Activity	On-site PM2.5T (lbs)	Off-Site PM2.5T (lbs)	Off-Site PM2.5T(lbs)		
				Worker	Vendor	Haul
2026	Demolition	37.37	14.61	0.63	-	13.98
2026	Site Preparation	50.89	0.42	0.35	0.07	-
2026	Grading	45.50	3.97	3.62	-	0.34
2027	Grading	1.52	0.14	0.12	-	0.01
2026	Building Construction	6.59	2.84	2.09	0.75	-
2027	Building Construction	16.82	8.15	6.01	2.14	-
2027	Paving	1.19	1.61	0.12	1.49	-
Total PM Exhaust (On-site)		141.87	21.97	6.82	0.82	14.332

CalEEMod Distance (miles)	11.7	8.4	20
Roadways Included within 1,000 ft	1.04	1.04	1.04
Roadway Emissions included	9%	12%	5%

	On-site Construction PM2.5T	Offsite Roadway PM2.5T	Off-Site Diesel PM2.5T (lbs) within 1,000 ft Roadways		
			Worker	Vendor	Haul
Modeled Emissions (lbs)	141.87	1.456	0.61	0.10	0.75
Hourly Emissions (lb/hr)	0.0682	0.00070			

Note: PM2.5T = PM10 Exhaust which is a surrogate for Diesel Exhaust, particulate matter

Source	percentage	Model Inputs	
Site Emissions	100%	6.82E-02	lb/hr
Roadway 1 Emissions	38%	2.6E-04	lb/hr
Roadway 2 Emissions	24%	1.7E-04	lb/hr
Roadway 3 Emissions	38%	2.7E-04	lb/hr

Note: Bldg Construction includes 6/1/2026-5/31/2027 or 5/12 of 2027 Emissions. First/Max year includes all of 2027 grading and all of 2027 paving.

Glider Residential Project - San Jose
Health Risk Assessment Inputs
DPM Emissions for AERMOD Inputs - Mitigated

Net Work Days	645
Net Construction Years	2.46
Total Working Hours	5,160

Construction Year	On-site Construction Activity	On-site PM10E (lbs)	Off-Site PM10E (lbs)	Off-Site PM10E(lbs)		
				Worker	Vendor	Haul
2026	Demolition	4.42	2.08	-	-	2.08
2026	Site Preparation	1.01	0.01	-	0.01	-
2026	Grading	10.05	0.05	-	-	0.05
2027	Grading	0.33	0.002	-	-	0.0017
2026	Building Construction	2.25	0.12	-	0.12	-
2026	Building Construction	15.42	0.83	-	0.83	-
2028	Building Construction	13.56	0.73	-	0.73	-
2027	Paving	0.34	0.22	-	0.22	-
2028	Architectural Coating	0.61	0.00	-	-	-
Total PM Exhaust (On-site)		48.00	4.04	-	1.91	2.131

CalEEMod Distance (miles)	11.7	8.4	20
Total Roadways Included within 1,000 ft	1.04	1.04	1.04
Roadway Emissions included	9%	12%	5%

	On-site Construction	Offsite Roadway	Off-Site Diesel PM10E (lbs) within 1,000 ft Roadways		
			Worker	Vendor	Haul
Modeled Emissions (lbs)	48.00	0.348	-	0.24	0.11
Hourly Emissions (lb/hr)	0.0093	0.00007			

Note: PM10E = PM10 Exhaust which is a surrogate for Diesel Exhaust, particulate matter

Source	percentage	Modeling Inputs	
Site Emissions	100%	9.3E-03	lb/hr
Roadway 1 Emissions	38%	2.5E-05	lb/hr
Roadway 2 Emissions	24%	1.6E-05	lb/hr
Roadway 3 Emissions	38%	2.6E-05	lb/hr

Glider Residential Project - San Jose

Health Risk Assessment Inputs

Fine Particulate Matter (PM2.5) Emissions for AERMOD Inputs - Mitigated

Net Work Days	260
Net Construction Years	1.00
Total Working Hours	2,080

Construction Year	On-site Construction Activity	On-site PM2.5T (lbs)	Off-Site PM2.5T (lbs)	Off-Site PM2.5T(lbs)		
				Worker	Vendor	Haul
2026	Demolition	24.48	14.61	0.63	-	13.98
2026	Site Preparation	40.41	0.42	0.35	0.07	-
2026	Grading	40.78	3.97	3.62	-	0.34
2027	Grading	1.38	0.14	0.12	-	0.01
2026	Building Construction	2.13	2.84	2.09	0.75	-
2027	Building Construction	6.09	8.15	6.01	2.14	-
2027	Paving	0.32	1.61	0.12	1.49	-
Total PM Exhaust (On-site)		109.18	21.97	6.82	0.82	14.332

CalEEMod Distance (miles)	11.7	8.4	20
Roadways Included within 1,000 ft	1.04	1.04	1.04
Roadway Emissions included	9%	12%	5%

	On-site Construction	Offsite Roadway	Off-Site Diesel PM2.5T (lbs) within 1,000 ft Roadways		
			Worker	Vendor	Haul
Modeled Emissions (lbs)	109.18	1.456	0.61	0.10	0.75
Hourly Emissions (lb/hr)	0.0525	0.00070			

Note: PM2.5T = PM10 Exhaust which is a surrogate for Diesel Exhaust, particulate matter

Source	percentage	Model Inputs	
Site Emissions	100%	5.25E-02	lb/hr
Roadway 1 Emissions	38%	2.6E-04	lb/hr
Roadway 2 Emissions	24%	1.7E-04	lb/hr
Roadway 3 Emissions	38%	2.7E-04	lb/hr

Note: Bldg Construction includes 6/1/2026-5/31/2027 or 5/12 of 2027 Emissions. First/Max year includes all of 2027 grading and all of 2027 paving.

Glider Residential Project - San Jose
Modeling Parameters for Construction HRA
Diesel Particulate Matter Emission Sources

Initial Source Release Parameters (m)											
Source ID	Modeled Source	Location Description	AERMOD Source Type	Size		Release Height	Initial Lateral Dimension	Initial Vertical Dimension	Emissions ⁴ (lb/hr)	AERMOD Source Emission Rate	
SITE_UM	Site - Off-Road Equipment Diesel Exhaust ¹	Project Site - Construction Area	Area	40337.9	m2	5	—	1.4	0.0259	8.1E-08	g/m2-sec
SITE_T4	Site - Off-Road Equipment with Tier 4 ¹	Project Site - Construction Area (Tier 4)	Area	40337.9	m2	5	—	1.4	0.0093	2.9E-08	g/m2-sec
ROAD1_DPM	Roadway 1 - On-Road Diesel Exhaust ^{2,3}	Truck Route - Drifter-Cozy-Glider Drive	Line-Volume	631.9	meters	3.40	5.12	3.16	2.5E-05	3.2E-06	g/s
ROAD2_DPM	Roadway 2- On-Road Diesel Exhaust ^{2,4}	Truck Route - Suisse Drive	Line-Volume	687.3	meters	3.40	5.12	3.16	1.6E-05	2.0E-06	g/s
ROAD3_DPM	Roadway 3 - On-Road Diesel Exhaust ^{2,5}	Truck Route - Dunn Avenue	Line-Volume	251.6	meters	3.40	5.12	3.16	2.6E-05	3.3E-06	g/s

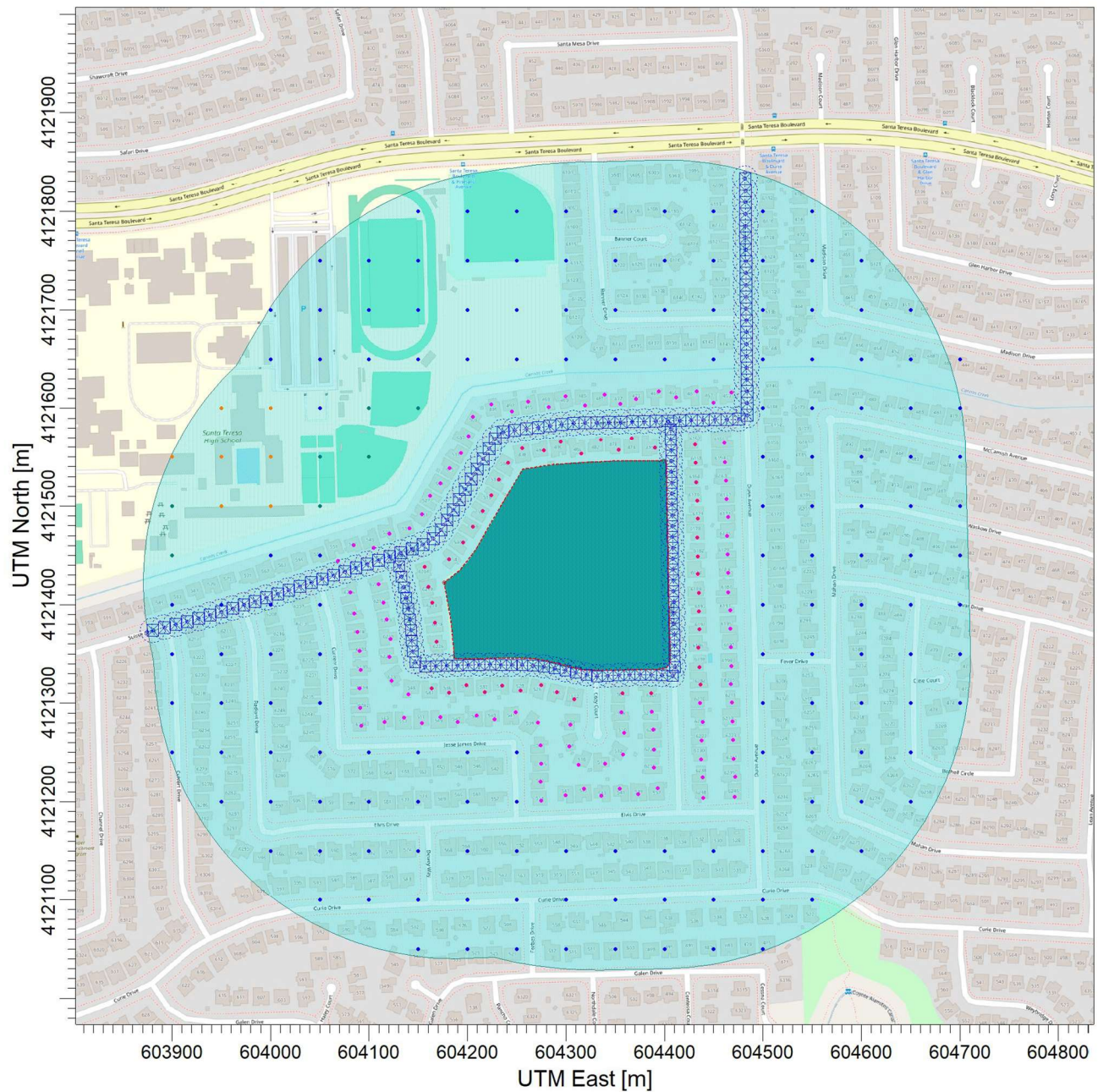
		Variable Emission Factors: ALL Sources					
1 Construction exhaust modeled as an area source. Release parameters for construction equipment DPM exhaust modeling from SCAQMD (2008) for gaseous exhaust from construction equipment.	Monday - Friday						
	1-6	0	0	0	0	0	0
	7-12	0	0	1	1	1	1
	13-18	0	1	1	1	1	0
	19-24	0	0	0	0	0	0
2 Emissions for On-Road Mobile Sources (Vendor and Haul Diesel Exhaust) modeled only for roadways within 1,000 feet of the site within the modeling domain.	Saturday						
	1-6	0	0	0	0	0	0
	7-12	0	0	0	0	0	0
	13-18	0	0	0	0	0	0
	19-24	0	0	0	0	0	0
3 Parameters calculated as per US EPA Haul Road Workgroup Final Report released on March 2, 2012 which suggests the use of Adjacent Volume Sources to represent the haul road.	Sunday						
	1-6	0	0	0	0	0	0
	7-12	0	0	0	0	0	0
	13-18	0	0	0	0	0	0
	19-24	0	0	0	0	0	0
4 Emissions from CalEEModeling for Construction modeled during construction hours as included in Attachment A. See Note 2 above regarding roadway emission portion modeled.							

Glider Residential Project - San Jose
Modeling Parameters for Construction HRA
Fine Particulate Matter (PM2.5) Emission Sources

Initial Source Release Parameters (m)											
Source ID	Modeled Source	Location Description	AERMOD Source Type	Size		Release Height	Initial Lateral Dimension	Initial Vertical Dimension	Emissions ⁴ (lb/hr)	AERMOD Source Emission Rate	
SITE_UM	Site - PM2.5 ¹	Project Site - Construction Area	Area	40337.9	m2	5	—	1.4	0.0682	2.1E-07	g/m2-sec
SITE_T4	Site - PM2.5 with Tier 4 ¹	Project Site - Construction Area (Tier 4)	Area	40337.9	m2	5	—	1.4	0.0525	1.6E-07	g/m2-sec
ROAD1_PM25	Roadway 1 -PM2.5 ^{2,3}	Truck Route - Drifter-Cozy-Glider Drive	Line-Volume	631.9	meters	3.40	5.12	3.16	2.6E-04	3.3E-05	g/s
ROAD2_PM26	Roadway 2 -PM2.5 ^{2,4}	Truck Route - Suisse Drive	Line-Volume	687.3	meters	3.40	5.12	3.16	1.7E-04	2.1E-05	g/s
ROAD3_PM27	Roadway 3-PM2.5 ^{2,5}	Truck Route - Dunn Avenue	Line-Volume	251.6	meters	3.40	5.12	3.16	2.7E-04	3.4E-05	g/s

Variable Emission Factors: ALL Sources											
1 Construction exhaust modeled as an area source. Release parameters for construction equipment DPM exhaust modeling from SCAQMD (2008) for gaseous exhaust from construction equipment. 2 Emissions for On-Road Mobile Sources (Vendor and Haul Diesel Exhaust) modeled only for roadways within 1,000 feet of the site within the modeling domain. 3 Parameters calculated as per US EPA Haul Road Workgroup Final Report released on March 2, 2012 which suggests the use of Adjacent Volume Sources to represent the haul road. 4 Emissions from CalEEModeling for Construction modeled during construction hours as included in Attachment A. See Note 2 above regarding roadway emission portion modeled. 5 Construction exhaust modeled as an area source. Modeled as per BAAQMD 2022 CEQA Guidelines which permits PM2.5 Dust to be modeled along with PM2.5Exhaust.	Monday - Friday										
	1-6	0	0	0	0	0	0	0	0	0	0
	7-12	0	0	1	1	1	1	1	1	1	1
	13-18	0	1	1	1	1	1	1	1	0	0
	19-24	0	0	0	0	0	0	0	0	0	0
	Saturday										
	1-6	0	0	0	0	0	0	0	0	0	0
	7-12	0	0	0	0	0	0	0	0	0	0
	13-18	0	0	0	0	0	0	0	0	0	0
	19-24	0	0	0	0	0	0	0	0	0	0
	Sunday										
	1-6	0	0	0	0	0	0	0	0	0	0
	7-12	0	0	0	0	0	0	0	0	0	0
	13-18	0	0	0	0	0	0	0	0	0	0
	19-24	0	0	0	0	0	0	0	0	0	0

Glider Residential Project Construction HRA - Source - Receptor Setup



Site 

Area 

Source 

Line-
Volume 

- Residential
- Residential - Sensitive
- School
- Park – Open Space
- Grid Receptor

SCALE: 1:6,500
0 0.2 km

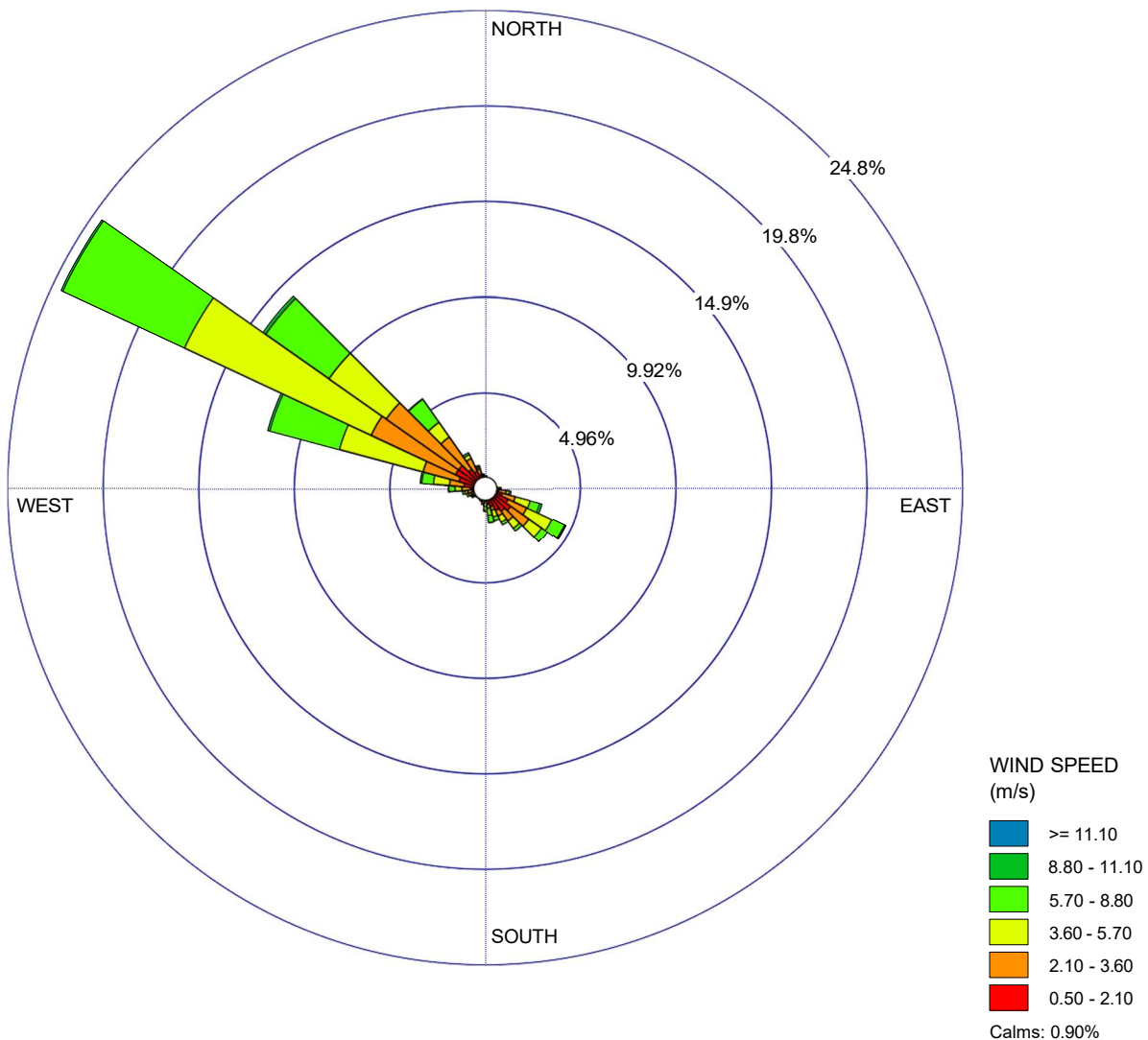
7/9/2024
FirstCarbon Solutions

WIND ROSE PLOT:

San Jose International Airport - KSJC
Wind Direction during Construction Hours

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Wind Rose is generated just for the hours with emissions when construction would occur or from 8 AM - 5 PM. This corresponds to the modeling hours in AERMOD.

DATA PERIOD:

Start Date: 1/1/2013 - 08:00
End Date: 12/31/2017 - 17:00

CALM WINDS:

0.90%

AVG. WIND SPEED:

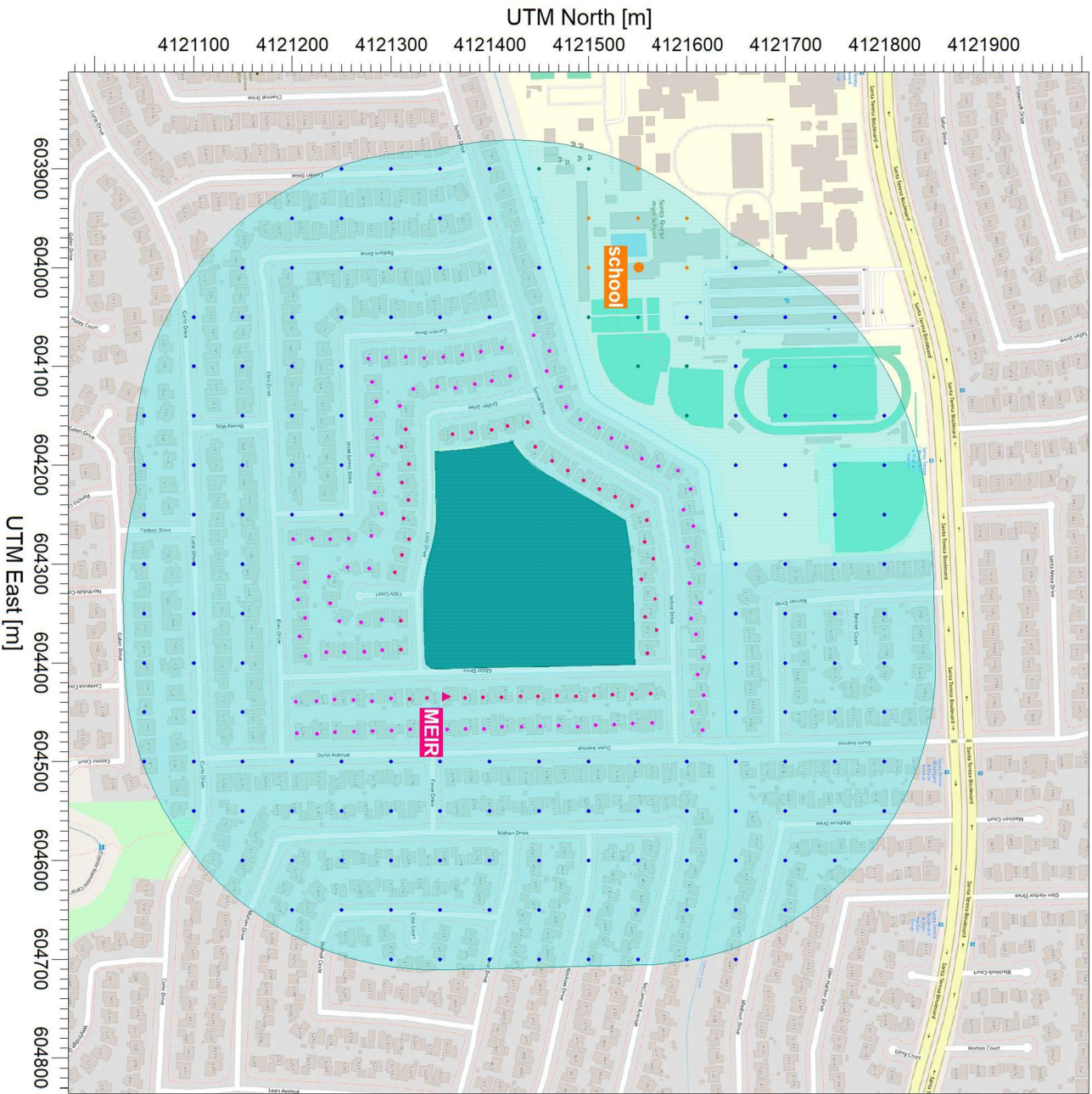
3.77 m/s

How to Read a Wind Rose Diagram

The wind rose above shows the general wind direction and speed for the meteorological data set used in the AERMOD modeling for the project.

The circular format of the wind rose shows the direction the winds blew from and the length of each "spoke" around the circle shows how often the wind blew from that direction.

PROJECT TITLE:
Glider Residential Project
Construction HRA - Maximum Impact Locations



PROJECT LEGEND:

Site



RECEPTOR LEGEND:

- Residential
- Residential - Sensitive
- School
- Park – Open Space
- Grid Receptor

SENSITIVE RECEPTOR LEGEND:

- MEIR = Maximally Exposed Individual Resident
- School Receptor

SCALE: 1:6,500



7/9/2024

FirstCarbon Solutions

Dispersion Options

Titles Glider Residential Project - San Jose Construction HRA - DPM and PM2.5	
Dispersion Options ☒ Regulatory Default ☐ Non-Default Options	Dispersion Coefficient Urban Population: Name (Optional): Roughness Length:
	Output Type ☒ Concentration ☐ Total Deposition (Dry & Wet) ☐ Dry Deposition ☐ Wet Deposition
	Plume Depletion ☐ Dry Removal ☐ Wet Removal
	Output Warnings ☐ No Output Warnings ☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type PM10	Exponential Decay Half-life of 4 hrs will be used
Averaging Time Options Hours ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24 ☐ Month ☒ Period ☐ Annual	Terrain Height Options ☐ Flat ☒ Elevated SO: Meters RE: Meters TG: Meters
Flagpole Receptors ☐ Yes ☒ No Default Height = 0.00 m	

Optional Files



Re-Start File



Init File



Multi-Year Analyses



Event Input File



Error Listing File

Detailed Error Listing File

Filename: ConHRA.err

Source Pathway - Source Inputs

AERMOD

Source Pathway - Source Inputs

AERMOD

Polygon Area Sources

Source Type: AREA POLY

Source: SITE_DPM_UM

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
50.96	1.00	8.09E-8	1.00	20	604176.16	4121422.71
		8.09E-8			604183.40	4121381.88
		8.09E-8			604186.50	4121344.69
		8.09E-8			604256.67	4121346.02
		8.09E-8			604269.13	4121345.02
		8.09E-8			604279.81	4121342.95
		8.09E-8			604316.43	4121334.03
		8.09E-8			604328.97	4121333.19
		8.09E-8			604394.84	4121334.64
		8.09E-8			604401.60	4121336.18
		8.09E-8			604405.80	4121340.92
		8.09E-8			604401.71	4121546.33
		8.09E-8			604345.24	4121545.96
		8.09E-8			604287.16	4121542.61
		8.09E-8			604256.11	4121537.29
		8.09E-8			604223.46	4121483.12
		8.09E-8			604208.83	4121456.46
		8.09E-8			604198.90	4121443.30
		8.09E-8			604192.20	4121434.98
		8.09E-8			604186.02	4121430.17

Source Pathway - Source Inputs

AERMOD

Source Type: AREA POLY

Source: SITE_DPM_T4

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
50.96	1.00	2.90E-8	1.00	20	604176.16	4121422.71
		2.90E-8			604183.40	4121381.88
		2.90E-8			604186.50	4121344.69
		2.90E-8			604256.67	4121346.02
		2.90E-8			604269.13	4121345.02
		2.90E-8			604279.81	4121342.95
		2.90E-8			604316.43	4121334.03
		2.90E-8			604328.97	4121333.19
		2.90E-8			604394.84	4121334.64
		2.90E-8			604401.60	4121336.18
		2.90E-8			604405.80	4121340.92
		2.90E-8			604401.71	4121546.33
		2.90E-8			604345.24	4121545.96
		2.90E-8			604287.16	4121542.61
		2.90E-8			604256.11	4121537.29
		2.90E-8			604223.46	4121483.12
		2.90E-8			604208.83	4121456.46
		2.90E-8			604198.90	4121443.30
		2.90E-8			604192.20	4121434.98
		2.90E-8			604186.02	4121430.17

Source Pathway - Source Inputs

AERMOD

Source Type: AREA POLY

Source: SITE_PM25_UM

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m ²)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
50.96	1.00	2.13E-7	1.00	20	604176.16	4121422.71
		2.13E-7			604183.40	4121381.88
		2.13E-7			604186.50	4121344.69
		2.13E-7			604256.67	4121346.02
		2.13E-7			604269.13	4121345.02
		2.13E-7			604279.81	4121342.95
		2.13E-7			604316.43	4121334.03
		2.13E-7			604328.97	4121333.19
		2.13E-7			604394.84	4121334.64
		2.13E-7			604401.60	4121336.18
		2.13E-7			604405.80	4121340.92
		2.13E-7			604401.71	4121546.33
		2.13E-7			604345.24	4121545.96
		2.13E-7			604287.16	4121542.61
		2.13E-7			604256.11	4121537.29
		2.13E-7			604223.46	4121483.12
		2.13E-7			604208.83	4121456.46
		2.13E-7			604198.90	4121443.30
		2.13E-7			604192.20	4121434.98
		2.13E-7			604186.02	4121430.17

Source Pathway - Source Inputs

AERMOD

Source Type: AREA POLY

Source: SITE_PM25_T4

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
50.96	1.00	1.64E-7	1.00	20	604176.16	4121422.71
		1.64E-7			604183.40	4121381.88
		1.64E-7			604186.50	4121344.69
		1.64E-7			604256.67	4121346.02
		1.64E-7			604269.13	4121345.02
		1.64E-7			604279.81	4121342.95
		1.64E-7			604316.43	4121334.03
		1.64E-7			604328.97	4121333.19
		1.64E-7			604394.84	4121334.64
		1.64E-7			604401.60	4121336.18
		1.64E-7			604405.80	4121340.92
		1.64E-7			604401.71	4121546.33
		1.64E-7			604345.24	4121545.96
		1.64E-7			604287.16	4121542.61
		1.64E-7			604256.11	4121537.29
		1.64E-7			604223.46	4121483.12
		1.64E-7			604208.83	4121456.46
		1.64E-7			604198.90	4121443.30
		1.64E-7			604192.20	4121434.98
		1.64E-7			604186.02	4121430.17

Source Pathway - Source Inputs

AERMOD

Line Volume Sources

Source Type: LINE VOLUME

Source: ROAD1_DPM (Cozy - Drifter Drive Route)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
11.00	3.15E-6	Surface-Based	604406.09	4121584.30	50.34	0.00
			604410.62	4121327.86	50.83	0.00
			604371.11	4121329.25	50.94	0.00
			604329.41	4121327.09	50.75	0.00
			604285.07	4121335.96	50.68	0.00
			604269.76	4121338.38	50.65	0.00
			604219.37	4121339.18	50.55	0.00
			604172.21	4121337.98	50.37	0.00
			604156.49	4121337.17	50.26	0.00
			604153.27	4121338.38	50.28	0.00
			604146.82	4121341.60	50.24	0.00
			604143.59	4121356.52	50.12	0.00
			604141.58	4121387.15	50.16	0.00
			604138.76	4121402.87	50.15	0.00
			604128.28	4121449.22	50.05	0.00

Source Pathway - Source Inputs

AERMOD

Source Type: LINE VOLUME

Source: ROAD1_PM25 (Cozy - Drifter Drive Route)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
11.00	0.00003	Surface-Based	604406.09	4121584.30	50.34	0.00
			604410.62	4121327.86	50.83	0.00
			604371.11	4121329.25	50.94	0.00
			604329.41	4121327.09	50.75	0.00
			604285.07	4121335.96	50.68	0.00
			604269.76	4121338.38	50.65	0.00
			604219.37	4121339.18	50.55	0.00
			604172.21	4121337.98	50.37	0.00
			604156.49	4121337.17	50.26	0.00
			604153.27	4121338.38	50.28	0.00
			604146.82	4121341.60	50.24	0.00
			604143.59	4121356.52	50.12	0.00
			604141.58	4121387.15	50.16	0.00
			604138.76	4121402.87	50.15	0.00
			604128.28	4121449.22	50.05	0.00

Source Type: LINE VOLUME

Source: ROAD2_DPM (Suisse Drive)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
12.00	2.02E-6	Surface-Based	603874.64	4121372.33	50.27	0.00
			603927.66	4121386.16	50.26	0.00
			603984.10	4121403.08	50.09	0.00
			604146.73	4121457.59	50.05	0.00
			604163.08	4121464.86	50.22	0.00
			604172.17	4121473.94	50.21	0.00
			604232.13	4121575.70	50.26	0.00
			604305.72	4121584.78	50.46	0.00
			604484.70	4121589.32	50.88	0.00

Source Pathway - Source Inputs

AERMOD

Source Type: LINE VOLUME

Source: ROAD2_PM25 (Suisse Drive)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
12.00	0.00002	Surface-Based	603874.64	4121372.33	50.27	0.00
			603927.66	4121386.16	50.26	0.00
			603984.10	4121403.08	50.09	0.00
			604146.73	4121457.59	50.05	0.00
			604163.08	4121464.86	50.22	0.00
			604172.17	4121473.94	50.21	0.00
			604232.13	4121575.70	50.26	0.00
			604305.72	4121584.78	50.46	0.00
			604484.70	4121589.32	50.88	0.00

Source Type: LINE VOLUME

Source: ROAD3_DPM (Dunn Avenue)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
12.00	3.28E-6	Surface-Based	604481.86	4121839.10	51.71	3.40
			604483.99	4121587.46	50.88	3.40

Source Type: LINE VOLUME

Source: ROAD3_PM25 (Dunn Avenue)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
12.00	0.00003	Surface-Based	604481.86	4121839.10	51.71	3.40
			604483.99	4121587.46	50.88	3.40

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
ROAD1_DPM	L0000001	604406.19	4121578.80	50.34	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000002	604406.38	4121567.80	50.36	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000003	604406.58	4121556.80	50.40	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000004	604406.77	4121545.80	50.47	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000005	604406.97	4121534.81	50.54	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000006	604407.16	4121523.81	50.57	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000007	604407.35	4121512.81	50.63	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000008	604407.55	4121501.81	50.69	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000009	604407.74	4121490.81	50.74	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000010	604407.94	4121479.81	50.79	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000011	604408.13	4121468.82	50.85	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000012	604408.33	4121457.82	50.90	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000013	604408.52	4121446.82	50.94	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000014	604408.71	4121435.82	50.99	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000015	604408.91	4121424.82	51.01	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000016	604409.10	4121413.82	50.98	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000017	604409.30	4121402.83	50.95	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000018	604409.49	4121391.83	50.92	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000019	604409.69	4121380.83	50.89	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000020	604409.88	4121369.83	50.86	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000021	604410.08	4121358.83	50.85	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000022	604410.27	4121347.84	50.82	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000023	604410.46	4121336.84	50.80	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000024	604408.60	4121327.93	50.84	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_DPM	L0000025	604397.61	4121328.32	50.98	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000026	604386.61	4121328.70	50.99	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000027	604375.62	4121329.09	50.94	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000028	604364.63	4121328.91	50.92	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000029	604353.65	4121328.35	50.88	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000030	604342.66	4121327.78	50.83	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000031	604331.68	4121327.21	50.75	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000032	604320.85	4121328.80	50.75	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000033	604310.06	4121330.96	50.76	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000034	604299.28	4121333.12	50.72	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000035	604288.49	4121335.28	50.72	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000036	604277.65	4121337.13	50.66	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000037	604266.75	4121338.43	50.63	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000038	604255.75	4121338.60	50.65	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000039	604244.75	4121338.78	50.65	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000040	604233.75	4121338.95	50.61	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000041	604222.75	4121339.13	50.53	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000042	604211.76	4121338.99	50.51	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000043	604200.76	4121338.71	50.48	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000044	604189.76	4121338.43	50.41	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000045	604178.77	4121338.14	50.38	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000046	604167.77	4121337.75	50.33	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000047	604156.79	4121337.18	50.26	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000048	604146.81	4121341.65	50.21	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000049	604144.48	4121352.40	50.14	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_DPM	L0000050	604143.15	4121363.29	50.12	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000051	604142.42	4121374.27	50.13	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000052	604141.70	4121385.24	50.16	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000053	604139.97	4121396.10	50.16	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000054	604137.85	4121406.89	50.12	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000055	604135.42	4121417.62	50.06	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000056	604133.00	4121428.35	49.99	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16
	L0000057	604130.57	4121439.07	49.99	0.00	5.53E-8	11.00	Surface-Based	5.12	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD2_DPM	L0000058	603880.45	4121373.85	50.28	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000059	603892.06	4121376.88	50.16	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000060	603903.67	4121379.90	50.13	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000061	603915.28	4121382.93	50.23	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000062	603926.89	4121385.96	50.23	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000063	603938.40	4121389.38	50.28	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000064	603949.89	4121392.82	50.20	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000065	603961.39	4121396.27	50.13	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000066	603972.88	4121399.71	50.02	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000067	603984.37	4121403.17	50.09	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000068	603995.75	4121406.98	50.19	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000069	604007.13	4121410.80	50.27	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000070	604018.51	4121414.61	50.25	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000071	604029.88	4121418.42	50.17	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000072	604041.26	4121422.24	50.08	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
ROAD2_DPM	L0000073	604052.64	4121426.05	50.06	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000074	604064.02	4121429.86	50.11	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000075	604075.40	4121433.68	50.17	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000076	604086.77	4121437.49	50.14	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000077	604098.15	4121441.31	50.17	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000078	604109.53	4121445.12	50.16	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000079	604120.91	4121448.93	50.07	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000080	604132.29	4121452.75	50.03	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000081	604143.66	4121456.56	50.06	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000082	604154.74	4121461.15	50.10	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000083	604165.11	4121466.89	50.14	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000084	604173.19	4121475.69	50.19	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000085	604179.29	4121486.02	50.23	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000086	604185.38	4121496.36	50.29	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000087	604191.47	4121506.70	50.30	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000088	604197.56	4121517.04	50.32	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000089	604203.66	4121527.38	50.35	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000090	604209.75	4121537.72	50.31	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000091	604215.84	4121548.05	50.28	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000092	604221.93	4121558.39	50.26	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000093	604228.02	4121568.73	50.24	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000094	604236.02	4121576.18	50.27	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000095	604247.93	4121577.65	50.34	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000096	604259.83	4121579.12	50.39	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000097	604271.74	4121580.59	50.42	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD2_DPM	L0000098	604283.65	4121582.06	50.44	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000099	604295.56	4121583.53	50.45	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000100	604307.49	4121584.83	50.47	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000101	604319.48	4121585.13	50.52	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000102	604331.48	4121585.43	50.52	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000103	604343.47	4121585.74	50.49	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000104	604355.47	4121586.04	50.48	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000105	604367.47	4121586.35	50.45	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000106	604379.46	4121586.65	50.42	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000107	604391.46	4121586.96	50.40	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000108	604403.45	4121587.26	50.35	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000109	604415.45	4121587.57	50.38	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000110	604427.45	4121587.87	50.46	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000111	604439.44	4121588.18	50.53	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000112	604451.44	4121588.48	50.58	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000113	604463.44	4121588.78	50.61	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
	L0000114	604475.43	4121589.09	50.72	0.00	3.54E-8	12.00	Surface-Based	5.58	3.16
Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_PM25	L0000271	604406.19	4121578.80	50.34	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000272	604406.38	4121567.80	50.36	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000273	604406.58	4121556.80	50.40	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000274	604406.77	4121545.80	50.47	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000275	604406.97	4121534.81	50.54	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000276	604407.16	4121523.81	50.57	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_PM25	L0000277	604407.35	4121512.81	50.63	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000278	604407.55	4121501.81	50.69	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000279	604407.74	4121490.81	50.74	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000280	604407.94	4121479.81	50.79	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000281	604408.13	4121468.82	50.85	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000282	604408.33	4121457.82	50.90	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000283	604408.52	4121446.82	50.94	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000284	604408.71	4121435.82	50.99	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000285	604408.91	4121424.82	51.01	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000286	604409.10	4121413.82	50.98	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000287	604409.30	4121402.83	50.95	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000288	604409.49	4121391.83	50.92	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000289	604409.69	4121380.83	50.89	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000290	604409.88	4121369.83	50.86	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000291	604410.08	4121358.83	50.85	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000292	604410.27	4121347.84	50.82	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000293	604410.46	4121336.84	50.80	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000294	604408.60	4121327.93	50.84	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000295	604397.61	4121328.32	50.98	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000296	604386.61	4121328.70	50.99	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000297	604375.62	4121329.09	50.94	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000298	604364.63	4121328.91	50.92	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000299	604353.65	4121328.35	50.88	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000300	604342.66	4121327.78	50.83	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000301	604331.68	4121327.21	50.75	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_PM25	L0000302	604320.85	4121328.80	50.75	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000303	604310.06	4121330.96	50.76	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000304	604299.28	4121333.12	50.72	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000305	604288.49	4121335.28	50.72	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000306	604277.65	4121337.13	50.66	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000307	604266.75	4121338.43	50.63	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000308	604255.75	4121338.60	50.65	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000309	604244.75	4121338.78	50.65	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000310	604233.75	4121338.95	50.61	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000311	604222.75	4121339.13	50.53	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000312	604211.76	4121338.99	50.51	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000313	604200.76	4121338.71	50.48	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000314	604189.76	4121338.43	50.41	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000315	604178.77	4121338.14	50.38	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000316	604167.77	4121337.75	50.33	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000317	604156.79	4121337.18	50.26	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000318	604146.81	4121341.65	50.21	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000319	604144.48	4121352.40	50.14	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000320	604143.15	4121363.29	50.12	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000321	604142.42	4121374.27	50.13	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000322	604141.70	4121385.24	50.16	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000323	604139.97	4121396.10	50.16	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000324	604137.85	4121406.89	50.12	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000325	604135.42	4121417.62	50.06	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
	L0000326	604133.00	4121428.35	49.99	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
ROAD1_PM25	L0000327	604130.57	4121439.07	49.99	0.00	5.75E-7	11.00	Surface-Based	5.12	3.16
ROAD2_PM25	L0000328	603880.45	4121373.85	50.28	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000329	603892.06	4121376.88	50.16	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000330	603903.67	4121379.90	50.13	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000331	603915.28	4121382.93	50.23	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000332	603926.89	4121385.96	50.23	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000333	603938.40	4121389.38	50.28	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000334	603949.89	4121392.82	50.20	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000335	603961.39	4121396.27	50.13	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000336	603972.88	4121399.71	50.02	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000337	603984.37	4121403.17	50.09	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000338	603995.75	4121406.98	50.19	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000339	604007.13	4121410.80	50.27	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000340	604018.51	4121414.61	50.25	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000341	604029.88	4121418.42	50.17	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000342	604041.26	4121422.24	50.08	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000343	604052.64	4121426.05	50.06	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000344	604064.02	4121429.86	50.11	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000345	604075.40	4121433.68	50.17	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000346	604086.77	4121437.49	50.14	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000347	604098.15	4121441.31	50.17	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000348	604109.53	4121445.12	50.16	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000349	604120.91	4121448.93	50.07	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
ROAD2_PM25	L0000350	604132.29	4121452.75	50.03	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000351	604143.66	4121456.56	50.06	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000352	604154.74	4121461.15	50.10	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000353	604165.11	4121466.89	50.14	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000354	604173.19	4121475.69	50.19	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000355	604179.29	4121486.02	50.23	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000356	604185.38	4121496.36	50.29	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000357	604191.47	4121506.70	50.30	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000358	604197.56	4121517.04	50.32	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000359	604203.66	4121527.38	50.35	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000360	604209.75	4121537.72	50.31	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000361	604215.84	4121548.05	50.28	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000362	604221.93	4121558.39	50.26	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000363	604228.02	4121568.73	50.24	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000364	604236.02	4121576.18	50.27	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000365	604247.93	4121577.65	50.34	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000366	604259.83	4121579.12	50.39	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000367	604271.74	4121580.59	50.42	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000368	604283.65	4121582.06	50.44	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000369	604295.56	4121583.53	50.45	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000370	604307.49	4121584.83	50.47	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000371	604319.48	4121585.13	50.52	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000372	604331.48	4121585.43	50.52	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000373	604343.47	4121585.74	50.49	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000374	604355.47	4121586.04	50.48	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD2_PM25	L0000375	604367.47	4121586.35	50.45	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000376	604379.46	4121586.65	50.42	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000377	604391.46	4121586.96	50.40	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000378	604403.45	4121587.26	50.35	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000379	604415.45	4121587.57	50.38	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000380	604427.45	4121587.87	50.46	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000381	604439.44	4121588.18	50.53	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000382	604451.44	4121588.48	50.58	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000383	604463.44	4121588.78	50.61	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16
	L0000384	604475.43	4121589.09	50.72	0.00	3.76E-7	12.00	Surface-Based	5.58	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD3_PM25	L0000385	604481.91	4121833.10	51.65	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000386	604482.01	4121821.10	51.62	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000387	604482.11	4121809.10	51.58	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000388	604482.21	4121797.10	51.55	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000389	604482.31	4121785.10	51.51	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000390	604482.42	4121773.10	51.46	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000391	604482.52	4121761.10	51.42	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000392	604482.62	4121749.10	51.40	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000393	604482.72	4121737.10	51.36	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000394	604482.82	4121725.10	51.31	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000395	604482.93	4121713.10	51.29	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000396	604483.03	4121701.10	51.25	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000397	604483.13	4121689.10	51.20	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD3_PM25	L0000398	604483.23	4121677.10	51.13	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000399	604483.33	4121665.10	51.08	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000400	604483.44	4121653.10	51.02	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000401	604483.54	4121641.10	50.96	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000402	604483.64	4121629.11	50.97	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000403	604483.74	4121617.11	50.93	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000404	604483.84	4121605.11	50.89	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16
	L0000405	604483.95	4121593.11	50.86	3.40	1.62E-6	12.00	Surface-Based	5.58	3.16

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
ROAD3_DPM	L0000406	604481.91	4121833.10	51.69	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000407	604482.01	4121821.10	51.65	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000408	604482.11	4121809.10	51.61	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000409	604482.21	4121797.10	51.57	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000410	604482.31	4121785.10	51.53	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000411	604482.42	4121773.10	51.49	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000412	604482.52	4121761.10	51.45	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000413	604482.62	4121749.10	51.41	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000414	604482.72	4121737.10	51.37	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000415	604482.82	4121725.10	51.33	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000416	604482.93	4121713.10	51.29	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000417	604483.03	4121701.10	51.25	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000418	604483.13	4121689.10	51.22	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000419	604483.23	4121677.10	51.18	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000420	604483.33	4121665.10	51.14	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
ROAD3_DPM	L0000421	604483.44	4121653.10	51.10	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000422	604483.54	4121641.10	51.06	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000423	604483.64	4121629.11	51.02	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000424	604483.74	4121617.11	50.98	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000425	604483.84	4121605.11	50.94	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16
	L0000426	604483.95	4121593.11	50.90	3.40	1.56E-7	12.00	Surface-Based	5.58	3.16

Source Pathway

AERMOD

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor: 1E6
Emission Unit Label: GRAMS/SEC
Concentration Unit Label: MICROGRAMS/M**3

Source Groups

Source Group ID: PM25_UM	List of Sources in Group (Source Range or Single Sources)
	SITE_PM25_UM ROAD1_PM25 ROAD2_PM25 ROAD3_PM25
Source Group ID: PM25_MIT	List of Sources in Group (Source Range or Single Sources)
	SITE_PM25_T4 ROAD1_PM25 ROAD2_PM25 ROAD3_PM25
Source Group ID: DPM_UM	List of Sources in Group (Source Range or Single Sources)
	SITE_DPM_UM ROAD1_DPM ROAD2_DPM ROAD3_DPM
Source Group ID: DPM_MIT	List of Sources in Group (Source Range or Single Sources)
	SITE_DPM_T4 ROAD1_DPM ROAD2_DPM ROAD3_DPM
Source Group ID: ALL	List of Sources in Group (Source Range or Single Sources)
	All Sources Included

Variable Emissions

Source Pathway

AERMOD

Hour-of-Day / Day-of-Week Emission Rate Variation

Scenario: Scenario 1

Source ID: SITE_DPM_UM							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID: SITE_DPM_T4							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID: ROAD1_DPM							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID: ROAD2_DPM							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

AERMOD

Scenario: Scenario 1

Source ID: ROAD2_DPM							
19 - 24		0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID: ROAD3_DPM							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID: SITE_PM25_UM							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID: SITE_PM25_T4							
Weekdays							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00
Day	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00
of	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00
Day	13 - 18	0.00	0.00	0.00	0.00	0.00	0.00
	19 - 24	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

AERMOD

Scenario: Scenario 1

Source ID: SITE_PM25_T4

Sunday							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	0.00	0.00	0.00
Day	13 - 18		0.00	0.00	0.00	0.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Source ID: ROAD1_PM25							
Weekdays							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	1.00	1.00	1.00
Day	13 - 18		0.00	1.00	1.00	1.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	0.00	0.00	0.00
Day	13 - 18		0.00	0.00	0.00	0.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	0.00	0.00	0.00
Day	13 - 18		0.00	0.00	0.00	0.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Source ID: ROAD2_PM25							
Weekdays							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	1.00	1.00	1.00
Day	13 - 18		0.00	1.00	1.00	1.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	0.00	0.00	0.00
Day	13 - 18		0.00	0.00	0.00	0.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	0.00	0.00	0.00
Day	13 - 18		0.00	0.00	0.00	0.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Source ID: ROAD3_PM25							
Weekdays							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	1.00	1.00	1.00
Day	13 - 18		0.00	1.00	1.00	1.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Saturday							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	0.00	0.00	0.00
Day	13 - 18		0.00	0.00	0.00	0.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00
Sunday							
Hour	1 - 6		0.00	0.00	0.00	0.00	0.00
of	7 - 12		0.00	0.00	0.00	0.00	0.00
Day	13 - 18		0.00	0.00	0.00	0.00	0.00
	19 - 24		0.00	0.00	0.00	0.00	0.00

Receptor Pathway

AERMOD

Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	604150.00	4121050.00	UCART1	52.40	
2	604200.00	4121050.00	UCART1	52.38	
3	604250.00	4121050.00	UCART1	52.21	
4	604300.00	4121050.00	UCART1	52.58	
5	604350.00	4121050.00	UCART1	52.76	
6	604400.00	4121050.00	UCART1	52.86	
7	604450.00	4121050.00	UCART1	52.91	
8	604500.00	4121050.00	UCART1	53.13	
9	604050.00	4121100.00	UCART1	51.02	
10	604100.00	4121100.00	UCART1	51.03	
11	604150.00	4121100.00	UCART1	50.69	
12	604200.00	4121100.00	UCART1	50.70	
13	604250.00	4121100.00	UCART1	50.85	
14	604300.00	4121100.00	UCART1	50.99	
15	604350.00	4121100.00	UCART1	51.18	
16	604400.00	4121100.00	UCART1	51.38	
17	604450.00	4121100.00	UCART1	51.61	
18	604500.00	4121100.00	UCART1	51.80	
19	604550.00	4121100.00	UCART1	52.19	
20	604000.00	4121150.00	UCART1	51.04	
21	604050.00	4121150.00	UCART1	51.12	
22	604100.00	4121150.00	UCART1	51.25	
23	604150.00	4121150.00	UCART1	50.90	
24	604200.00	4121150.00	UCART1	51.37	
25	604250.00	4121150.00	UCART1	51.57	
26	604300.00	4121150.00	UCART1	51.67	
27	604350.00	4121150.00	UCART1	51.78	
28	604400.00	4121150.00	UCART1	51.77	
29	604450.00	4121150.00	UCART1	51.91	
30	604500.00	4121150.00	UCART1	51.38	

Receptor Pathway

AERMOD

31	604550.00	4121150.00	UCART1	52.47
32	604600.00	4121150.00	UCART1	52.49
33	603950.00	4121200.00	UCART1	50.87
34	604000.00	4121200.00	UCART1	50.66
35	604050.00	4121200.00	UCART1	51.10
36	604100.00	4121200.00	UCART1	51.15
37	604150.00	4121200.00	UCART1	51.06
38	604200.00	4121200.00	UCART1	51.13
39	604250.00	4121200.00	UCART1	50.66
40	604500.00	4121200.00	UCART1	51.21
41	604550.00	4121200.00	UCART1	52.10
42	604600.00	4121200.00	UCART1	51.97
43	604650.00	4121200.00	UCART1	52.59
44	603900.00	4121250.00	UCART1	50.31
45	603950.00	4121250.00	UCART1	50.85
46	604000.00	4121250.00	UCART1	50.63
47	604050.00	4121250.00	UCART1	50.73
48	604100.00	4121250.00	UCART1	50.55
49	604150.00	4121250.00	UCART1	50.68
50	604200.00	4121250.00	UCART1	50.87
51	604250.00	4121250.00	UCART1	50.47
52	604500.00	4121250.00	UCART1	51.35
53	604550.00	4121250.00	UCART1	52.01
54	604600.00	4121250.00	UCART1	52.13
55	604650.00	4121250.00	UCART1	51.94
56	603900.00	4121300.00	UCART1	50.26
57	603950.00	4121300.00	UCART1	50.85
58	604000.00	4121300.00	UCART1	50.59
59	604050.00	4121300.00	UCART1	50.71
60	604500.00	4121300.00	UCART1	51.36
61	604550.00	4121300.00	UCART1	51.94
62	604600.00	4121300.00	UCART1	52.04
63	604650.00	4121300.00	UCART1	51.77
64	604700.00	4121300.00	UCART1	52.58
65	603900.00	4121350.00	UCART1	50.06
66	603950.00	4121350.00	UCART1	50.74
67	604000.00	4121350.00	UCART1	50.56
68	604050.00	4121350.00	UCART1	50.65

Receptor Pathway

AERMOD

69	604500.00	4121350.00	UCART1	51.17
70	604550.00	4121350.00	UCART1	51.37
71	604600.00	4121350.00	UCART1	52.14
72	604650.00	4121350.00	UCART1	51.55
73	604700.00	4121350.00	UCART1	52.54
74	603900.00	4121400.00	UCART1	50.61
75	603950.00	4121400.00	UCART1	50.12
76	604000.00	4121400.00	UCART1	50.53
77	604050.00	4121400.00	UCART1	50.13
78	604500.00	4121400.00	UCART1	51.51
79	604550.00	4121400.00	UCART1	51.90
80	604600.00	4121400.00	UCART1	52.23
81	604650.00	4121400.00	UCART1	51.67
82	604700.00	4121400.00	UCART1	51.99
83	603900.00	4121450.00	POS	50.11
84	604000.00	4121450.00	UCART1	50.50
85	604050.00	4121450.00	UCART1	50.53
86	604500.00	4121450.00	UCART1	51.66
87	604550.00	4121450.00	UCART1	51.92
88	604600.00	4121450.00	UCART1	52.19
89	604650.00	4121450.00	UCART1	52.48
90	604700.00	4121450.00	UCART1	52.91
91	603900.00	4121500.00	POS	50.37
92	603950.00	4121500.00	SCHOOL	50.65
93	604000.00	4121500.00	SCHOOL	50.77
94	604050.00	4121500.00	POS	50.76
95	604500.00	4121500.00	UCART1	51.61
96	604550.00	4121500.00	UCART1	51.90
97	604600.00	4121500.00	UCART1	51.63
98	604650.00	4121500.00	UCART1	52.23
99	604700.00	4121500.00	UCART1	52.72
100	603900.00	4121550.00	SCHOOL	50.53
101	603950.00	4121550.00	SCHOOL	51.94
102	604000.00	4121550.00	SCHOOL	51.93
103	604050.00	4121550.00	POS	50.77
104	604100.00	4121550.00	POS	50.47
105	604500.00	4121550.00	UCART1	51.51
106	604550.00	4121550.00	UCART1	51.94

Receptor Pathway

AERMOD

107	604600.00	4121550.00	UCART1	52.51
108	604650.00	4121550.00	UCART1	52.61
109	604700.00	4121550.00	UCART1	52.69
110	603950.00	4121600.00	SCHOOL	51.60
111	604000.00	4121600.00	SCHOOL	51.65
112	604050.00	4121600.00	UCART1	50.73
113	604100.00	4121600.00	POS	50.54
114	604150.00	4121600.00	POS	50.38
115	604500.00	4121600.00	UCART1	51.37
116	604550.00	4121600.00	UCART1	51.86
117	604600.00	4121600.00	UCART1	51.60
118	604650.00	4121600.00	UCART1	52.35
119	604700.00	4121600.00	UCART1	52.63
120	604000.00	4121650.00	UCART1	50.63
121	604050.00	4121650.00	UCART1	50.43
122	604100.00	4121650.00	UCART1	50.70
123	604150.00	4121650.00	UCART1	50.85
124	604200.00	4121650.00	UCART1	51.39
125	604250.00	4121650.00	UCART1	51.40
126	604300.00	4121650.00	UCART1	50.84
127	604350.00	4121650.00	UCART1	50.63
128	604400.00	4121650.00	UCART1	49.93
129	604450.00	4121650.00	UCART1	50.41
130	604500.00	4121650.00	UCART1	50.30
131	604550.00	4121650.00	UCART1	50.14
132	604600.00	4121650.00	UCART1	50.77
133	604650.00	4121650.00	UCART1	52.35
134	604700.00	4121650.00	UCART1	52.33
135	604000.00	4121700.00	UCART1	50.74
136	604050.00	4121700.00	UCART1	50.25
137	604100.00	4121700.00	UCART1	50.77
138	604150.00	4121700.00	UCART1	50.77
139	604200.00	4121700.00	UCART1	50.96
140	604250.00	4121700.00	UCART1	51.16
141	604300.00	4121700.00	UCART1	51.58
142	604350.00	4121700.00	UCART1	50.95
143	604400.00	4121700.00	UCART1	51.12
144	604450.00	4121700.00	UCART1	51.29

Receptor Pathway

AERMOD

145	604500.00	4121700.00	UCART1	51.73
146	604550.00	4121700.00	UCART1	52.04
147	604600.00	4121700.00	UCART1	51.95
148	604650.00	4121700.00	UCART1	52.31
149	604050.00	4121750.00	UCART1	50.52
150	604100.00	4121750.00	UCART1	50.77
151	604150.00	4121750.00	UCART1	50.77
152	604200.00	4121750.00	UCART1	50.96
153	604250.00	4121750.00	UCART1	50.81
154	604300.00	4121750.00	UCART1	51.39
155	604350.00	4121750.00	UCART1	51.22
156	604400.00	4121750.00	UCART1	51.38
157	604450.00	4121750.00	UCART1	52.02
158	604500.00	4121750.00	UCART1	51.88
159	604550.00	4121750.00	UCART1	52.09
160	604600.00	4121750.00	UCART1	52.78
161	604150.00	4121800.00	UCART1	50.75
162	604200.00	4121800.00	UCART1	51.20
163	604250.00	4121800.00	UCART1	51.20
164	604300.00	4121800.00	UCART1	51.37
165	604350.00	4121800.00	UCART1	51.24
166	604400.00	4121800.00	UCART1	51.39
167	604450.00	4121800.00	UCART1	52.14
168	604500.00	4121800.00	UCART1	52.12
169	604550.00	4121800.00	UCART1	52.06
170	604468.01	4121616.04	RES	51.24
171	604449.65	4121605.83	RES	50.92
172	604432.49	4121617.00	RES	51.12
173	604411.59	4121611.00	RES	50.97
174	604393.90	4121617.42	RES	51.11
175	604390.21	4121559.54	SENS-RES	50.79
176	604371.00	4121609.80	RES	51.03
177	604366.63	4121569.61	SENS-RES	50.87
178	604355.18	4121604.48	RES	50.96
179	604353.18	4121557.03	SENS-RES	51.01
180	604339.17	4121613.82	RES	51.15
181	604335.25	4121567.64	SENS-RES	50.94
182	604319.37	4121602.81	RES	50.92

Receptor Pathway

AERMOD

183	604315.32	4121553.27	SENS-RES	51.05
184	604299.76	4121612.20	RES	51.19
185	604294.38	4121565.29	SENS-RES	50.93
186	604282.41	4121601.26	RES	50.88
187	604277.30	4121556.54	SENS-RES	50.95
188	604261.71	4121606.79	RES	51.01
189	604245.08	4121596.94	RES	50.83
190	604255.21	4121558.70	SENS-RES	50.83
191	604223.90	4121604.13	RES	51.01
192	604205.62	4121591.24	RES	50.97
193	604357.33	4121310.12	SENS-RES	51.40
194	604201.13	4121571.62	RES	50.87
195	604356.39	4121291.14	RES	51.48
196	604240.98	4121543.99	SENS-RES	50.87
197	604358.85	4121269.90	RES	51.62
198	604193.07	4121554.23	RES	50.82
199	604357.76	4121247.72	RES	51.60
200	604231.95	4121527.12	SENS-RES	50.83
201	604339.74	4121238.70	RES	51.58
202	604181.47	4121538.60	RES	50.88
203	604312.94	4121237.50	RES	51.56
204	604224.23	4121511.08	SENS-RES	50.88
205	604303.62	4121256.15	RES	51.48
206	604172.23	4121523.32	RES	50.85
207	604304.70	4121278.25	RES	51.46
208	604215.06	4121495.00	SENS-RES	50.82
209	604308.28	4121304.29	SENS-RES	51.32
210	604290.52	4121311.25	SENS-RES	51.29
211	604274.75	4121318.61	SENS-RES	51.14
212	604205.42	4121478.90	SENS-RES	50.82
213	604162.13	4121510.66	RES	50.84
214	604254.04	4121313.10	SENS-RES	51.21
215	604234.96	4121318.12	SENS-RES	51.21
216	604195.28	4121463.27	SENS-RES	50.81
217	604274.97	4121201.35	RES	51.32
218	604153.65	4121491.58	RES	50.78
219	604217.45	4121311.13	SENS-RES	51.09
220	604274.42	4121220.57	RES	51.41

Receptor Pathway

AERMOD

221	604198.56	4121318.27	SENS-RES	51.13
222	604181.43	4121445.88	SENS-RES	50.82
223	604274.84	4121238.57	RES	51.30
224	604140.91	4121477.56	RES	50.67
225	604181.00	4121310.60	SENS-RES	51.02
226	604393.31	4121214.09	RES	51.72
227	604274.40	4121257.52	RES	51.28
228	604373.11	4121207.94	RES	51.72
229	604271.16	4121280.59	RES	51.32
230	604120.89	4121472.03	RES	50.71
231	604354.28	4121213.26	RES	51.80
232	604248.79	4121290.78	RES	51.21
233	604163.84	4121315.19	SENS-RES	50.84
234	604335.75	4121206.03	RES	51.72
235	604227.35	4121283.78	RES	51.05
236	604104.86	4121457.42	RES	50.44
237	604318.28	4121213.24	RES	51.74
238	604209.21	4121287.40	RES	51.20
239	604299.57	4121206.64	RES	51.59
240	604190.02	4121281.11	RES	51.12
241	604084.30	4121460.16	RES	50.64
242	604140.12	4121309.16	RES	50.85
243	604172.12	4121286.17	RES	51.23
244	604153.83	4121279.85	RES	51.01
245	604068.46	4121444.39	RES	50.23
246	604135.68	4121285.43	RES	51.06
247	604115.96	4121280.76	RES	50.94
248	604431.20	4121562.81	SENS-RES	51.19
249	604460.60	4121564.26	RES	51.69
250	604431.70	4121543.87	SENS-RES	51.19
251	604461.37	4121544.36	RES	51.71
252	604462.35	4121525.91	RES	51.73
253	604432.22	4121524.44	SENS-RES	51.21
254	604463.08	4121507.21	RES	51.80
255	604433.19	4121505.75	SENS-RES	51.30
256	604464.77	4121489.02	RES	51.88
257	604433.92	4121487.30	SENS-RES	51.38
258	604463.62	4121469.98	RES	51.88

Receptor Pathway

AERMOD

259	604433.47	4121468.23	SENS-RES	51.49
260	604463.89	4121450.79	RES	51.90
261	604433.98	4121448.80	SENS-RES	51.55
262	604464.86	4121432.34	RES	51.86
263	604433.97	4121431.05	SENS-RES	51.50
264	604464.66	4121412.66	RES	51.83
265	604434.72	4121412.11	SENS-RES	51.51
266	604466.83	4121394.24	RES	51.77
267	604434.74	4121393.39	SENS-RES	51.62
268	604435.23	4121375.17	SENS-RES	51.56
269	604466.60	4121375.76	RES	51.79
270	604434.52	4121356.43	SENS-RES	51.52
271	604467.34	4121357.06	RES	51.77
272	604435.53	4121336.78	SENS-RES	51.49
273	604467.85	4121337.88	RES	51.77
274	604156.21	4121438.49	SENS-RES	50.73
275	604436.48	4121318.76	SENS-RES	51.50
276	604109.68	4121420.98	RES	50.57
277	604467.16	4121319.57	RES	51.84
278	604081.12	4121412.79	RES	50.68
279	604386.26	4121310.42	SENS-RES	51.49
280	604160.11	4121417.96	SENS-RES	50.74
281	604436.26	4121300.03	RES	51.48
282	604114.51	4121402.05	RES	50.63
283	604468.38	4121300.65	RES	51.78
284	604084.80	4121391.29	RES	50.73
285	604164.36	4121402.24	SENS-RES	50.73
286	604117.67	4121384.75	RES	50.71
287	604387.24	4121291.25	RES	51.53
288	604438.69	4121280.90	RES	51.61
289	604468.89	4121281.46	RES	51.81
290	604088.43	4121372.19	RES	50.79
291	604166.82	4121381.66	SENS-RES	50.72
292	604121.71	4121365.15	RES	50.67
293	604388.68	4121273.05	RES	51.61
294	604437.75	4121262.16	RES	51.58
295	604469.38	4121263.00	RES	51.81
296	604090.38	4121353.04	RES	50.91

Receptor Pathway

AERMOD

297	604168.77	4121362.52	SENS-RES	50.78
298	604120.75	4121346.89	RES	50.75
299	604389.22	4121252.91	RES	51.70
300	604091.36	4121333.87	RES	50.94
301	604437.29	4121243.19	RES	51.57
302	604122.60	4121323.06	RES	50.75
303	604469.89	4121243.58	RES	51.81
304	604090.43	4121314.89	RES	50.89
305	604389.01	4121234.88	RES	51.68
306	604438.74	4121224.75	RES	51.68
307	604471.57	4121225.62	RES	51.78
308	604091.19	4121295.47	RES	50.83
309	604471.39	4121204.98	RES	51.50
310	604092.11	4121277.29	RES	50.85
311	604439.53	4121204.14	RES	51.48

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	UCART1	Receptors generated from Uniform Cartesian Grid
2	SCHOOL	
3	RES	
4	SENS-RES	
5	POS	
		Adjacent Residences
		Park - Open Space

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: ..\MET\SANJOSE13_17.SFC

Format Type: Default AERMET format

Profile Met Data

Filename: ..\MET\SANJOSE13_17.PFL

Format Type: Default AERMET format

Wind Speed



Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 15.50 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2013			San Jose Intl Airport (KSJC)
Upper Air		2013			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2013

Start Hour: 1

End Date: 12/31/2017

End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Results Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_MIT

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.01769	ug/m^3	604434.52	4121356.43	51.52	0.00	248.84	

PM10 - Concentration - Source Group: DPM_UM

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.04915	ug/m^3	604434.52	4121356.43	51.52	0.00	248.84	

PM10 - Concentration - Source Group: PM25_MIT

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.10014	ug/m^3	604434.52	4121356.43	51.52	0.00	248.84	

PM10 - Concentration - Source Group: PM25_UM

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.12990	ug/m^3	604434.52	4121356.43	51.52	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_MIT

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00037	ug/m^3		603900.00	4121550.00	50.53	0.00	248.84	
PERIOD		0.00053	ug/m^3		603950.00	4121550.00	51.94	0.00	248.84	
PERIOD		0.00075	ug/m^3	HS-MAX	604000.00	4121550.00	51.93	0.00	248.84	
PERIOD		0.00057	ug/m^3		603950.00	4121600.00	51.60	0.00	248.84	
PERIOD		0.00075	ug/m^3		604000.00	4121600.00	51.65	0.00	248.84	
PERIOD		0.00413	ug/m^3		604390.21	4121559.54	50.79	0.00	248.84	
PERIOD		0.00388	ug/m^3		604366.63	4121569.61	50.87	0.00	248.84	
PERIOD		0.00739	ug/m^3		604353.18	4121557.02	51.01	0.00	248.84	
PERIOD		0.00934	ug/m^3		604315.32	4121553.27	51.05	0.00	248.84	
PERIOD		0.00588	ug/m^3		604294.38	4121565.29	50.93	0.00	248.84	
PERIOD		0.00751	ug/m^3		604277.30	4121556.54	50.95	0.00	248.84	
PERIOD		0.00622	ug/m^3		604255.21	4121558.69	50.83	0.00	248.84	
PERIOD		0.01318	ug/m^3		604357.33	4121310.12	51.40	0.00	248.84	
PERIOD		0.00757	ug/m^3		604240.98	4121543.99	50.87	0.00	248.84	
PERIOD		0.00838	ug/m^3		604231.95	4121527.12	50.83	0.00	248.84	
PERIOD		0.00892	ug/m^3		604224.22	4121511.08	50.88	0.00	248.84	
PERIOD		0.00901	ug/m^3		604215.06	4121495.00	50.82	0.00	248.84	
PERIOD		0.00751	ug/m^3		604308.28	4121304.29	51.32	0.00	248.84	
PERIOD		0.00795	ug/m^3		604290.52	4121311.25	51.29	0.00	248.84	
PERIOD		0.00891	ug/m^3		604274.75	4121318.61	51.14	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_MIT

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00883	ug/m^3		604205.42	4121478.90	50.82	0.00	248.84	
PERIOD		0.00568	ug/m^3		604254.04	4121313.10	51.21	0.00	248.84	
PERIOD		0.00512	ug/m^3		604234.96	4121318.12	51.21	0.00	248.84	
PERIOD		0.00852	ug/m^3		604195.28	4121463.27	50.81	0.00	248.84	
PERIOD		0.00231	ug/m^3		604217.45	4121311.13	51.09	0.00	248.84	
PERIOD		0.00169	ug/m^3		604198.56	4121318.27	51.13	0.00	248.84	
PERIOD		0.00797	ug/m^3		604181.43	4121445.88	50.82	0.00	248.84	
PERIOD		0.00087	ug/m^3		604181.00	4121310.60	51.02	0.00	248.84	
PERIOD		0.00070	ug/m^3		604163.84	4121315.19	50.84	0.00	248.84	
PERIOD		0.00152	ug/m^3		604431.20	4121562.81	51.19	0.00	248.84	
PERIOD		0.00262	ug/m^3		604431.70	4121543.87	51.19	0.00	248.84	
PERIOD		0.00585	ug/m^3		604432.22	4121524.44	51.21	0.00	248.84	
PERIOD		0.00920	ug/m^3		604433.19	4121505.75	51.30	0.00	248.84	
PERIOD		0.01164	ug/m^3		604433.92	4121487.30	51.38	0.00	248.84	
PERIOD		0.01374	ug/m^3		604433.47	4121468.23	51.49	0.00	248.84	
PERIOD		0.01501	ug/m^3		604433.98	4121448.80	51.55	0.00	248.84	
PERIOD		0.01602	ug/m^3		604433.97	4121431.05	51.50	0.00	248.84	
PERIOD		0.01656	ug/m^3		604434.72	4121412.11	51.51	0.00	248.84	
PERIOD		0.01708	ug/m^3		604434.74	4121393.39	51.62	0.00	248.84	
PERIOD		0.01731	ug/m^3		604435.23	4121375.17	51.56	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_MIT

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.01769	ug/m^3	MEIR	604434.52	4121356.43	51.52	0.00	248.84	
PERIOD		0.01688	ug/m^3		604435.53	4121336.78	51.49	0.00	248.84	
PERIOD		0.00458	ug/m^3		604156.21	4121438.49	50.73	0.00	248.84	
PERIOD		0.01437	ug/m^3		604436.48	4121318.76	51.50	0.00	248.84	
PERIOD		0.01438	ug/m^3		604386.26	4121310.42	51.49	0.00	248.84	
PERIOD		0.00507	ug/m^3		604160.11	4121417.96	50.74	0.00	248.84	
PERIOD		0.00517	ug/m^3		604164.36	4121402.23	50.73	0.00	248.84	
PERIOD		0.00435	ug/m^3		604166.82	4121381.66	50.72	0.00	248.84	
PERIOD		0.00308	ug/m^3		604168.77	4121362.52	50.78	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_UM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00104	ug/m^3		603900.00	4121550.00	50.53	0.00	248.84	
PERIOD		0.00146	ug/m^3		603950.00	4121550.00	51.94	0.00	248.84	
PERIOD		0.00209	ug/m^3	HS-MAX	604000.00	4121550.00	51.93	0.00	248.84	
PERIOD		0.00158	ug/m^3		603950.00	4121600.00	51.60	0.00	248.84	
PERIOD		0.00209	ug/m^3		604000.00	4121600.00	51.65	0.00	248.84	
PERIOD		0.01137	ug/m^3		604390.21	4121559.54	50.79	0.00	248.84	
PERIOD		0.01069	ug/m^3		604366.63	4121569.61	50.87	0.00	248.84	
PERIOD		0.02051	ug/m^3		604353.18	4121557.02	51.01	0.00	248.84	
PERIOD		0.02596	ug/m^3		604315.32	4121553.27	51.05	0.00	248.84	
PERIOD		0.01628	ug/m^3		604294.38	4121565.29	50.93	0.00	248.84	
PERIOD		0.02084	ug/m^3		604277.30	4121556.54	50.95	0.00	248.84	
PERIOD		0.01724	ug/m^3		604255.21	4121558.69	50.83	0.00	248.84	
PERIOD		0.03657	ug/m^3		604357.33	4121310.12	51.40	0.00	248.84	
PERIOD		0.02101	ug/m^3		604240.98	4121543.99	50.87	0.00	248.84	
PERIOD		0.02326	ug/m^3		604231.95	4121527.12	50.83	0.00	248.84	
PERIOD		0.02479	ug/m^3		604224.22	4121511.08	50.88	0.00	248.84	
PERIOD		0.02504	ug/m^3		604215.06	4121495.00	50.82	0.00	248.84	
PERIOD		0.02081	ug/m^3		604308.28	4121304.29	51.32	0.00	248.84	
PERIOD		0.02203	ug/m^3		604290.52	4121311.25	51.29	0.00	248.84	
PERIOD		0.02468	ug/m^3		604274.75	4121318.61	51.14	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_UM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.02452	ug/m^3		604205.42	4121478.90	50.82	0.00	248.84	
PERIOD		0.01569	ug/m^3		604254.04	4121313.10	51.21	0.00	248.84	
PERIOD		0.01413	ug/m^3		604234.96	4121318.12	51.21	0.00	248.84	
PERIOD		0.02365	ug/m^3		604195.28	4121463.27	50.81	0.00	248.84	
PERIOD		0.00633	ug/m^3		604217.45	4121311.13	51.09	0.00	248.84	
PERIOD		0.00456	ug/m^3		604198.56	4121318.27	51.13	0.00	248.84	
PERIOD		0.02211	ug/m^3		604181.43	4121445.88	50.82	0.00	248.84	
PERIOD		0.00233	ug/m^3		604181.00	4121310.60	51.02	0.00	248.84	
PERIOD		0.00187	ug/m^3		604163.84	4121315.19	50.84	0.00	248.84	
PERIOD		0.00410	ug/m^3		604431.20	4121562.81	51.19	0.00	248.84	
PERIOD		0.00716	ug/m^3		604431.70	4121543.87	51.19	0.00	248.84	
PERIOD		0.01617	ug/m^3		604432.22	4121524.44	51.21	0.00	248.84	
PERIOD		0.02552	ug/m^3		604433.19	4121505.75	51.30	0.00	248.84	
PERIOD		0.03230	ug/m^3		604433.92	4121487.30	51.38	0.00	248.84	
PERIOD		0.03817	ug/m^3		604433.47	4121468.23	51.49	0.00	248.84	
PERIOD		0.04170	ug/m^3		604433.98	4121448.80	51.55	0.00	248.84	
PERIOD		0.04450	ug/m^3		604433.97	4121431.05	51.50	0.00	248.84	
PERIOD		0.04601	ug/m^3		604434.72	4121412.11	51.51	0.00	248.84	
PERIOD		0.04747	ug/m^3		604434.74	4121393.39	51.62	0.00	248.84	
PERIOD		0.04811	ug/m^3		604435.23	4121375.17	51.56	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: DPM_UM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.04915	ug/m^3	MEIR	604434.52	4121356.43	51.52	0.00	248.84	
PERIOD		0.04690	ug/m^3		604435.53	4121336.78	51.49	0.00	248.84	
PERIOD		0.01264	ug/m^3		604156.21	4121438.49	50.73	0.00	248.84	
PERIOD		0.03991	ug/m^3		604436.48	4121318.76	51.50	0.00	248.84	
PERIOD		0.03990	ug/m^3		604386.26	4121310.42	51.49	0.00	248.84	
PERIOD		0.01399	ug/m^3		604160.11	4121417.96	50.74	0.00	248.84	
PERIOD		0.01428	ug/m^3		604164.36	4121402.23	50.73	0.00	248.84	
PERIOD		0.01199	ug/m^3		604166.82	4121381.66	50.72	0.00	248.84	
PERIOD		0.00844	ug/m^3		604168.77	4121362.52	50.78	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: PM25_MIT

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00213	ug/m^3		603900.00	4121550.00	50.53	0.00	248.84	
PERIOD		0.00299	ug/m^3		603950.00	4121550.00	51.94	0.00	248.84	
PERIOD		0.00427	ug/m^3	HS-MAX	604000.00	4121550.00	51.93	0.00	248.84	
PERIOD		0.00322	ug/m^3		603950.00	4121600.00	51.60	0.00	248.84	
PERIOD		0.00426	ug/m^3		604000.00	4121600.00	51.65	0.00	248.84	
PERIOD		0.02363	ug/m^3		604390.21	4121559.54	50.79	0.00	248.84	
PERIOD		0.02220	ug/m^3		604366.63	4121569.61	50.87	0.00	248.84	
PERIOD		0.04192	ug/m^3		604353.18	4121557.02	51.01	0.00	248.84	
PERIOD		0.05291	ug/m^3		604315.32	4121553.27	51.05	0.00	248.84	
PERIOD		0.03340	ug/m^3		604294.38	4121565.29	50.93	0.00	248.84	
PERIOD		0.04256	ug/m^3		604277.30	4121556.54	50.95	0.00	248.84	
PERIOD		0.03530	ug/m^3		604255.21	4121558.69	50.83	0.00	248.84	
PERIOD		0.07482	ug/m^3		604357.33	4121310.12	51.40	0.00	248.84	
PERIOD		0.04291	ug/m^3		604240.98	4121543.99	50.87	0.00	248.84	
PERIOD		0.04746	ug/m^3		604231.95	4121527.12	50.83	0.00	248.84	
PERIOD		0.05055	ug/m^3		604224.22	4121511.08	50.88	0.00	248.84	
PERIOD		0.05105	ug/m^3		604215.06	4121495.00	50.82	0.00	248.84	
PERIOD		0.04267	ug/m^3		604308.28	4121304.29	51.32	0.00	248.84	
PERIOD		0.04520	ug/m^3		604290.52	4121311.25	51.29	0.00	248.84	
PERIOD		0.05071	ug/m^3		604274.75	4121318.61	51.14	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: PM25_MIT

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.05001	ug/m^3		604205.42	4121478.90	50.82	0.00	248.84	
PERIOD		0.03236	ug/m^3		604254.04	4121313.10	51.21	0.00	248.84	
PERIOD		0.02928	ug/m^3		604234.96	4121318.12	51.21	0.00	248.84	
PERIOD		0.04826	ug/m^3		604195.28	4121463.27	50.81	0.00	248.84	
PERIOD		0.01334	ug/m^3		604217.45	4121311.13	51.09	0.00	248.84	
PERIOD		0.00987	ug/m^3		604198.56	4121318.27	51.13	0.00	248.84	
PERIOD		0.04516	ug/m^3		604181.43	4121445.88	50.82	0.00	248.84	
PERIOD		0.00511	ug/m^3		604181.00	4121310.60	51.02	0.00	248.84	
PERIOD		0.00412	ug/m^3		604163.84	4121315.19	50.84	0.00	248.84	
PERIOD		0.00896	ug/m^3		604431.20	4121562.81	51.19	0.00	248.84	
PERIOD		0.01512	ug/m^3		604431.70	4121543.87	51.19	0.00	248.84	
PERIOD		0.03335	ug/m^3		604432.22	4121524.44	51.21	0.00	248.84	
PERIOD		0.05227	ug/m^3		604433.19	4121505.75	51.30	0.00	248.84	
PERIOD		0.06598	ug/m^3		604433.92	4121487.30	51.38	0.00	248.84	
PERIOD		0.07788	ug/m^3		604433.47	4121468.23	51.49	0.00	248.84	
PERIOD		0.08503	ug/m^3		604433.98	4121448.80	51.55	0.00	248.84	
PERIOD		0.09072	ug/m^3		604433.97	4121431.05	51.50	0.00	248.84	
PERIOD		0.09375	ug/m^3		604434.72	4121412.11	51.51	0.00	248.84	
PERIOD		0.09672	ug/m^3		604434.74	4121393.39	51.62	0.00	248.84	
PERIOD		0.09801	ug/m^3		604435.23	4121375.17	51.56	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: PM25_MIT

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.10014	ug/m^3	MEIR	604434.52	4121356.43	51.52	0.00	248.84	
PERIOD		0.09557	ug/m^3		604435.53	4121336.78	51.49	0.00	248.84	
PERIOD		0.02612	ug/m^3		604156.21	4121438.49	50.73	0.00	248.84	
PERIOD		0.08142	ug/m^3		604436.48	4121318.76	51.50	0.00	248.84	
PERIOD		0.08153	ug/m^3		604386.26	4121310.42	51.49	0.00	248.84	
PERIOD		0.02892	ug/m^3		604160.11	4121417.96	50.74	0.00	248.84	
PERIOD		0.02952	ug/m^3		604164.36	4121402.23	50.73	0.00	248.84	
PERIOD		0.02493	ug/m^3		604166.82	4121381.66	50.72	0.00	248.84	
PERIOD		0.01780	ug/m^3		604168.77	4121362.52	50.78	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: PM25_UM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00276	ug/m^3		603900.00	4121550.00	50.53	0.00	248.84	
PERIOD		0.00387	ug/m^3		603950.00	4121550.00	51.94	0.00	248.84	
PERIOD		0.00553	ug/m^3	HS-MAX	604000.00	4121550.00	51.93	0.00	248.84	
PERIOD		0.00417	ug/m^3		603950.00	4121600.00	51.60	0.00	248.84	
PERIOD		0.00553	ug/m^3		604000.00	4121600.00	51.65	0.00	248.84	
PERIOD		0.03048	ug/m^3		604390.21	4121559.54	50.79	0.00	248.84	
PERIOD		0.02864	ug/m^3		604366.63	4121569.61	50.87	0.00	248.84	
PERIOD		0.05433	ug/m^3		604353.18	4121557.02	51.01	0.00	248.84	
PERIOD		0.06862	ug/m^3		604315.32	4121553.27	51.05	0.00	248.84	
PERIOD		0.04324	ug/m^3		604294.38	4121565.29	50.93	0.00	248.84	
PERIOD		0.05517	ug/m^3		604277.30	4121556.54	50.95	0.00	248.84	
PERIOD		0.04573	ug/m^3		604255.21	4121558.69	50.83	0.00	248.84	
PERIOD		0.09693	ug/m^3		604357.33	4121310.12	51.40	0.00	248.84	
PERIOD		0.05563	ug/m^3		604240.98	4121543.99	50.87	0.00	248.84	
PERIOD		0.06154	ug/m^3		604231.95	4121527.12	50.83	0.00	248.84	
PERIOD		0.06556	ug/m^3		604224.22	4121511.08	50.88	0.00	248.84	
PERIOD		0.06621	ug/m^3		604215.06	4121495.00	50.82	0.00	248.84	
PERIOD		0.05525	ug/m^3		604308.28	4121304.29	51.32	0.00	248.84	
PERIOD		0.05851	ug/m^3		604290.52	4121311.25	51.29	0.00	248.84	
PERIOD		0.06562	ug/m^3		604274.75	4121318.61	51.14	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: PM25_UM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.06486	ug/m^3		604205.42	4121478.90	50.82	0.00	248.84	
PERIOD		0.04183	ug/m^3		604254.04	4121313.10	51.21	0.00	248.84	
PERIOD		0.03779	ug/m^3		604234.96	4121318.12	51.21	0.00	248.84	
PERIOD		0.06257	ug/m^3		604195.28	4121463.27	50.81	0.00	248.84	
PERIOD		0.01714	ug/m^3		604217.45	4121311.13	51.09	0.00	248.84	
PERIOD		0.01259	ug/m^3		604198.56	4121318.27	51.13	0.00	248.84	
PERIOD		0.05854	ug/m^3		604181.43	4121445.88	50.82	0.00	248.84	
PERIOD		0.00649	ug/m^3		604181.00	4121310.60	51.02	0.00	248.84	
PERIOD		0.00523	ug/m^3		604163.84	4121315.19	50.84	0.00	248.84	
PERIOD		0.01140	ug/m^3		604431.20	4121562.81	51.19	0.00	248.84	
PERIOD		0.01941	ug/m^3		604431.70	4121543.87	51.19	0.00	248.84	
PERIOD		0.04311	ug/m^3		604432.22	4121524.44	51.21	0.00	248.84	
PERIOD		0.06770	ug/m^3		604433.19	4121505.75	51.30	0.00	248.84	
PERIOD		0.08552	ug/m^3		604433.92	4121487.30	51.38	0.00	248.84	
PERIOD		0.10098	ug/m^3		604433.47	4121468.23	51.49	0.00	248.84	
PERIOD		0.11028	ug/m^3		604433.98	4121448.80	51.55	0.00	248.84	
PERIOD		0.11766	ug/m^3		604433.97	4121431.05	51.50	0.00	248.84	
PERIOD		0.12161	ug/m^3		604434.72	4121412.11	51.51	0.00	248.84	
PERIOD		0.12547	ug/m^3		604434.74	4121393.39	51.62	0.00	248.84	
PERIOD		0.12714	ug/m^3		604435.23	4121375.17	51.56	0.00	248.84	

Sensitive Receptor Summary

Glider Residential Project - San Jose
Construction HRA - DPM and PM2.5

PM10 - Concentration - Source Group: PM25_UM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.12990	ug/m^3	MEIR	604434.52	4121356.43	51.52	0.00	248.84	
PERIOD		0.12397	ug/m^3		604435.53	4121336.78	51.49	0.00	248.84	
PERIOD		0.03375	ug/m^3		604156.21	4121438.49	50.73	0.00	248.84	
PERIOD		0.10558	ug/m^3		604436.48	4121318.76	51.50	0.00	248.84	
PERIOD		0.10566	ug/m^3		604386.26	4121310.42	51.49	0.00	248.84	
PERIOD		0.03736	ug/m^3		604160.11	4121417.96	50.74	0.00	248.84	
PERIOD		0.03813	ug/m^3		604164.36	4121402.23	50.73	0.00	248.84	
PERIOD		0.03216	ug/m^3		604166.82	4121381.66	50.72	0.00	248.84	
PERIOD		0.02287	ug/m^3		604168.77	4121362.52	50.78	0.00	248.84	

HEALTH RISK ASSESSMENT CALCULATIONS

The HRA was conducted utilizing the CARB's Hot Spots Analysis and Reporting Program Version 2 (HARP2) to automatically calculate risks for the projects using OEHHA promulgated cancer potency and reference exposure levels. (HARP2) is the recommended model for calculating and presenting HRA results because it follows the district's risk assessment guidance methodology and is consistent with the Air District's Regulation 2-5. Since AERMOD was run with project emission rates to directly calculate potential DPM and PM2.5 concentrations, the Health Risk Assessment Standalone Tool (RAST) version of HARP2 was used.

The HRA follows BAAQMD CEQA Guidelines based on OEHHA Guidance. This risk assessment intake methodology addresses children's greater sensitivity and health impacts from early exposure to carcinogenic compounds. The chemical intake or dose describing the frequency and duration of the exposure is estimated using receptor's breathing rates, exposure duration, and exposure frequency. The calculations include the use of age-specific weighting factors, breathing rates, fraction of time at home, and reduced exposure durations.

These factors are described below, followed by a summary of the HARP2 HRA inputs and cancer and noncancer risk results for selected for each receptor group (i.e., resident, off-site worker, and student).

Age Sensitivity Factors – Studies have shown that young animals are more sensitive than adult animals to exposure to many carcinogens (OEHHA, 2009). Therefore, OEHHA developed age sensitivity factors (ASFs) to account for the increased sensitivity to carcinogens during early-in-life exposures. Accordingly, the cancer risk methodology applies different ASFs by age groups. The ASFs utilized a 10-fold multiplier in sensitivity for the third trimester and infants less than age 2, a 3-fold increase in sensitivity for children ages 2 to 16 years old, and a sensitivity factor of 1 for ages 16 and older.

Daily breathing rates (age-specific daily air intake) – For residential receptors, the HRA utilizes the 95th percentile breathing rates for the most sensitive age groups (less than 2 years of age) and 80th percentile for all other age groups. This approach jointly developed by ARB and CAPCOA¹ and adopted by BAAQMD² is referred to as the "Risk Management Policy" and was developed to consider the new science in risk assessment while providing a reasonable estimate of potential cancer risk for risk management decisions. and used in this HRA. The HRA uses 95th percentile 8-hour breathing rates for moderate intensity activities for worker and student exposure.³

Time at home – The time at home applies only applies to residential receptors. Residents are assumed to be at home 350 days per year, which assumes individuals are away for approximately 2 weeks of

¹ California Air Resources Board (ARB) and California Air Pollution Control Officers Association (CAPCOA). 2015. Risk Management Guidance for Stationary Sources of Air Toxics. July 23. Website: <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/rma/rmgssat.pdf>. Accessed April 8, 2024.

² Bay Area Air Quality Management District (BAAQMD). 2022. California Environmental Quality Act – Air Quality Guidelines Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards. Website: https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?rev=b8917a27345a4a629fc18fc8650951e4&sc_lang=en. Accessed March 7, 2024.

³ Office of Environmental Health Hazard Assessment (OEHHA). 2015. The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Website: <https://oehha.ca.gov/media/downloads/crnrr/2015guidancemanual.pdf>. Accessed March 29, 2024.

vacation. The fraction of time at home refers to the estimated amount of time residents stay at home during these 350 days. The HRA uses the OEHHA and BAAQMD recommended values of 73% time at home for 16-year-olds and above based on population and activity statistics. The HRA also assumes 100 percent time at home for receptors under age 16 to address exposures at local schools close to emitting sources. Even though infants and children may not be at their residence all the time, they are likely to remain in the neighborhood (at schools or neighbors) and would be exposed to similar levels of the pollutants.

Exposure Duration - OEHHA 2015 guidelines specify a 30-year residential exposure duration for estimating cancer risk at the maximum exposed individual resident (MEIR). This is based on studies showing that 30 years is a reasonable estimate of the 90th to 95th percentile of residency duration in the population. A 25-year standard exposure duration is the default to estimate cancer risk for off-site workers. However, risk assessors can use other exposure durations with proper justification and documentation. For example, short-term projects (e.g., construction projects) can now be evaluated for as short a duration as 6 months.

Residential Cancer Risk

Cancer risk for individual resident receptors exposed to “Diesel Particulate Exhaust” (DPM) were calculated utilizing the “Risk Management Policy” option for inhalation, specifying that residents spend 100% time at home for ages less than 16 years old. Consistent with OEHHA guidance, the start of residential exposure was assumed to occur in the third trimester (-0.25 years) to accommodate the increased susceptibility of exposures in early life. Since the construction is anticipated to occur for 2.46 years, the residential exposure starts with the unborn child at the third trimester (when construction begins) and continues until the child is 2.21 years of age. Because there are no significant sources of TAC emissions during operations, the exposure assessment is limited to the duration of the proposed project construction or 2.46 years.

Worker Cancer Risk

The area surrounding the site is residential and there are no identified nearby worker receptors.

Student Cancer Risk

Student cancer risk and chronic hazards were determined for Santa Teresa High School (within 1,000 feet of the project site). The student risk calculations utilized a starting exposure age appropriate to the youngest high school students (assumed 13 years) and a project specific exposure duration of 2.46 years.

Cancer risks utilized the 95th percentile 8-hour breathing rates for moderate activity specific to this age range. The analysis utilizes the breathing rate for ages 2-16 (520 (L/kg-hr)), consistent with BAAQMD recommended exposure values for students.

Since the construction emissions were modeled as a non-continuous source, the worker adjustment factor was used to adjust for the proper exposure concentration at the school. When modeling a non-continuously emitting source (e.g., operating for eight hours per day and five days per week), the modeled long-term average concentrations are based on 24 hours a day and seven days per week for the period of the meteorological data set. Thus, this concentration includes the zero hours when the source was not operating.

The worker adjustment factor (WAF) is used to determine the long-term concentration the student is breathing during their school attendance. Therefore, the long-term concentration is adjusted so it is based only on the hours when the student is present. For this project, assuming the emitting source and student's schedules are the same, the adjustment factor is $4.2 = (24 \text{ hours per day} / 8 \text{ hours per shift}) \times (7 \text{ days in a week} / 5 \text{ days in a work week})$.

HARP2 provides for the specification of the WAF for worker cancer risk assessments, and this was entered as 4.2 to make this adjustment.

Noncancer Chronic Health Risks

Chronic RELs are used to assess not only residential health impacts, but also student health impacts.

Potential chronic noncancer health impacts use the long-term annual average concentration regardless of the emitting facility's schedule. As per OEHHA guidance, no adjustment factors were used to adjust this concentration for students.

HARP2 Inputs and Results

HARP2 Output files are included to document the HRA exposure parameters and risk results. The following scenarios are included for unmitigated and mitigated emission scenarios:

- Residential Cancer at MEIR
- Chronic Exposure at MEIR
- Student Cancer Risk at School
- Chronic Cancer Risk at School

GLCs loaded successfully
Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: HighEnd

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 2.21

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0.21
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: OFF
16 years to 70 years: ON

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk saved to: F:\Jobs\56400003\ConHRA\HARP\ResCancerCancerRisk.csv
HRA ran successfully

*HARP - HRACalc v22118 7/9/2024 5:56:16 AM -

Cancer Risk - Input File: F:\Jobs\56400003\ConHRA\HARP\ResCancerHRAInput.hra

UTME	UTMN	Pollutant	Conc (ug/m3)	Risk	Scenario	Inhalation Risk
MEIR	UNMIT	DieselExhPM	0.04915	1.7108e-05	2.21YrCancerRMP_Inh_FAH16to70	1.7108e-05
MEIR	T4	DieselExhPM	0.01769	6.1576e-06	2.21YrCancerRMP_Inh_FAH16to70	6.1576e-06

GLCs loaded successfully
Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: HighEnd

EXPOSURE DURATION PARAMETERS FOR CANCER

Exposure duration are only adjusted for cancer assessments

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating chronic risk

Chronic risk saved to: F:\Jobs\56400003\ConHRA\HARP\ResChronicNCChronicRisk.csv

HRA ran successfully

*HARP - HRACalc v22118 7/9/2024 5:56:44 AM -
 Chronic Risk - Input File: F:\Jobs\56400003\ConHRA\HARP\ResChronicHRAInput.hra

UTME	UTMN	Pollutant	Conc (ug/m3)	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	B/T	ENDO	BLOOD	ODOR	GEN
MEIR	UNMIT	DieselExhPM	0.04915	0.0	0.0	0.0	0.0	0.0	0.0	0.00983	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEIR	T4	DieselExhPM	0.01769	0.0	0.0	0.0	0.0	0.0	0.0	0.003538	0.0	0.0	0.0	0.0	0.0	0.0	0.0

GLCs loaded successfully
Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 13
Total Exposure Duration: 2.46

Exposure Duration Bin Distribution

3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 2.46
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors

NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.

Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home

3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk saved to: F:\Jobs\56400003\ConHRA\HARP\SchoolCancerCancerRisk.csv

HRA ran successfully

*HARP - HRACalc v22118 7/9/2024 6:00:27 AM -

Cancer Risk - Input File: F:\Jobs\56400003\ConHRA\HARP\SchoolCancerHRAInput.hra

UTME	UTMN	Pollutant	Conc (ug/m3)	Risk	Scenario	Inhalation Risk
HSCHOOL	UNMIT	DieselExhPM	0.00209	3.6257e-07	2.46YrCancerDerived_Inh	3.6257e-07
HSCHOOL	T4	DieselExhPM	0.00075	1.3011e-07	2.46YrCancerDerived_Inh	1.3011e-07

GLCs loaded successfully
Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCChronic
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk saved to: F:\Jobs\56400003\ConHRA\HARP\SchoolChronicNCChronicRisk.csv
HRA ran successfully

*HARP - HRACalc v22118 7/9/2024 6:00:46 AM -
 Chronic Risk - Input File: F:\Jobs\56400003\ConHRA\HARP\SchoolChronicHRAInput.hra

UTME	UTMN	Pollutant	Conc (ug/m3)	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	B/T	ENDO	BLOOD	ODOR	GEN
HSCHOOL	UNMIT	DieselExhPM	0.00209	0.0	0.0	0.0	0.0	0.0	0.0	0.000418	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HSCHOOL	T4	DieselExhPM	0.00075	0.0	0.0	0.0	0.0	0.0	0.0	0.00015	0.0	0.0	0.0	0.0	0.0	0.0	0.0

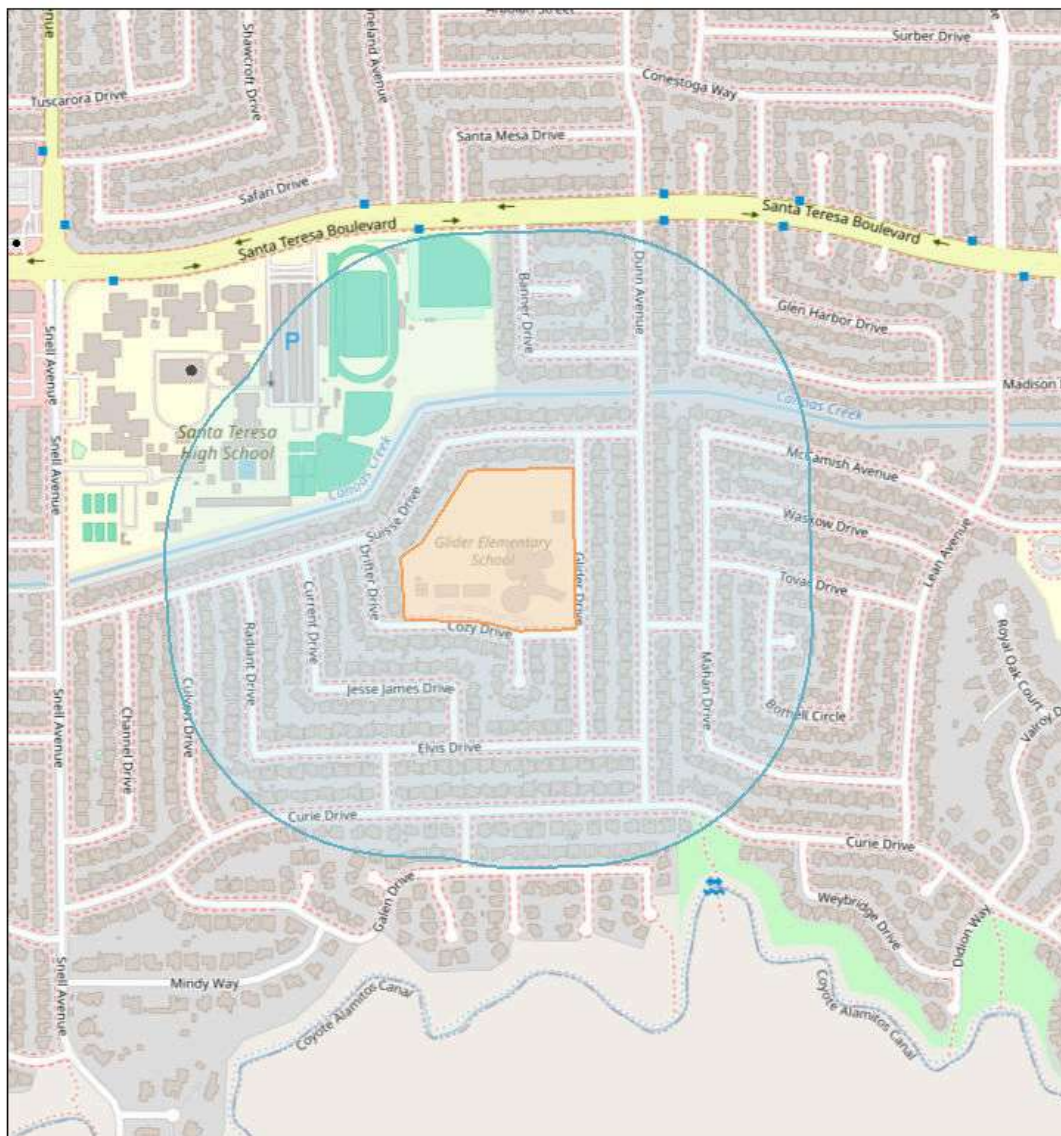


Screening Report - Glider Residential Project

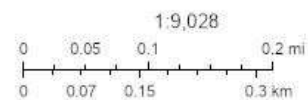
Area of Interest (AOI) Information

Area : 6,139,223.43 ft²

Jul 5 2024 10:10:06 Pacific Daylight Time



- Permitted Stationary Sources



Map data © OpenStreetMap contributors, CC-BY-SA

Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	0	N/A	N/A

NOTE: A larger buffer than 1000 feet may be warranted depending on proximity to significant sources.

UTMX	UTMY	Road			Rail			
		Cancer Risk	Road Chronic HI	Road PM2.5	Cancer Risk	Rail Chronic HI	Rail PM2.5	
604435	4121356	4.004758	0.017691	0.162469	0	0	0	MEIR
604000	4121550	4.018837	0.014431	0.114115	0	0	0	School

Data Provided By: BAAQMD as raster file (.tif) datasets

Roadway Screening Tool - Cancer Risk Last Updated December 8 2022

Roadway Screening Tool - Chronic Hazard Last Updated December 8 2022

Roadway Screening Tool - PM2.5 Last Updated December 8 2022

Rail Screening Tool - Cancer Risk Last Updated May 9 2024

Rail Screening Tool - Chronic Hazard Last Updated May 9 2024

Rail Screening Tool - PM2.5 Last Updated May 9 2024

BAAQMD Road and Rail Raster File Results at Project Site Bldg Locations

UTMX	UTMY	Road			Rail		
		Cancer Risk	Road Chronic HI	Road PM2.5	Cancer Risk	Rail Chronic HI	Rail PM2.5
604386	4121533	4.297445	0.016035	0.134762	0	0	0
604373	4121533	4.297445	0.016035	0.134762	0	0	0
604358	4121535	4.297445	0.016035	0.134762	0	0	0
604344	4121531	4.297445	0.016035	0.134762	0	0	0
604332	4121529	3.995937	0.014152	0.115081	0	0	0
604319	4121529	3.995937	0.014152	0.115081	0	0	0
604308	4121531	3.995937	0.014152	0.115081	0	0	0
604290	4121523	3.942164	0.014104	0.114858	0	0	0
604274	4121521	3.942164	0.014104	0.114858	0	0	0
604268	4121517	3.942164	0.014104	0.114858	0	0	0
604256	4121503	3.676714	0.013137	0.107217	0	0	0
604247	4121493	3.676714	0.013137	0.107217	0	0	0
604237	4121481	3.707734	0.013694	0.113481	0	0	0
604238	4121470	3.707734	0.013694	0.113481	0	0	0
604230	4121452	3.511776	0.013074	0.109143	0	0	0
604222	4121445	3.511776	0.013074	0.109143	0	0	0
604214	4121430	3.511776	0.013074	0.109143	0	0	0
604206	4121420	3.511776	0.013074	0.109143	0	0	0
604200	4121403	3.534433	0.014093	0.122367	0	0	0
604201	4121390	3.534433	0.014093	0.122367	0	0	0
604203	4121377	3.534433	0.014093	0.122367	0	0	0
604202	4121366	3.534433	0.014093	0.122367	0	0	0
604250	4121357	3.436909	0.013859	0.121512	0	0	0
604262	4121361	3.492911	0.013592	0.116991	0	0	0
604281	4121360	3.492911	0.013592	0.116991	0	0	0
604295	4121350	3.561059	0.014619	0.129595	0	0	0
604306	4121353	3.561059	0.014619	0.129595	0	0	0
604324	4121348	3.561059	0.014619	0.129595	0	0	0
604334	4121345	3.561059	0.014619	0.129595	0	0	0
604351	4121347	4.109938	0.018836	0.174659	0	0	0
604367	4121342	4.109938	0.018836	0.174659	0	0	0
604379	4121346	4.109938	0.018836	0.174659	0	0	0
604396	4121349	4.004758	0.017691	0.162469	0	0	0
604393	4121372	3.736801	0.014778	0.128907	0	0	0
604395	4121384	3.736801	0.014778	0.128907	0	0	0
604393	4121403	3.50509	0.013274	0.113009	0	0	0
604393	4121410	3.818295	0.014538	0.124113	0	0	0
604392	4121424	3.544341	0.012743	0.105109	0	0	0
604393	4121439	3.544341	0.012743	0.105109	0	0	0
604393	4121452	3.818295	0.014538	0.124113	0	0	0
604392	4121465	3.931737	0.014631	0.123044	0	0	0
604396	4121483	4.033641	0.015181	0.128505	0	0	0
604386	4121497	3.931737	0.014631	0.123044	0	0	0

Data Provided By: BAAQMD as raster file (.tif) datasets

Roadway Screening Tool - Cancer Risk Last Updated December 8 2022

Roadway Screening Tool - Chronic Hazard Last Updated December 8 2022

Roadway Screening Tool - PM2.5 Last Updated December 8 2022

Rail Screening Tool - Cancer Risk Last Updated May 9 2024

Rail Screening Tool - Chronic Hazard Last Updated May 9 2024

Rail Screening Tool - PM2.5 Last Updated May 9 2024



CITY OF SAN JOSE GHGRS PROJECT COMPLIANCE CHECKLIST ATTACHMENT FOR THE GLIDER RESIDENTIAL PROJECT

Table A: General Plan Consistency

1) Consistency with the Land Use/Transportation Diagram (Land Use and Density)

Consistent. The project site is designated Public/Quasi Public (PQP) under the Envision San José 2040 General Plan and is zoned Single-Family Residential (R-1-8). The PQP land use designation designates public land uses, including schools, colleges, corporation yards, homeless shelters, permanent supporting housing, libraries, fire stations, water treatment facilities, convention centers, museums, governmental offices, and airports. It also incorporates various private uses, such as private schools, daycare centers, hospitals, and public utilities.

However, the R-1-8 zoning district allows residential density of up to 8 dwelling units per acre (du/ac). The R-1-8 zoning district permits one-family dwellings, accessory dwelling units (ADUs), residential accessory buildings and structures, and various other uses. The minimum permitted lot area is 5,445 square feet, and the maximum allowed height is 35 feet.

The proposed project includes the demolition of the existing school, and the development of 64 single-family residential lots and 8 duplexes for a total of 80 residential units. The corresponding density would be 8.4 density units per acre (du/ac).

The proposed project is requesting the following waivers pursuant to Government Code 65915:

- Residential Density
- Minimum Lot Area
- Front Setback
- Rear Interior Setback
- Rear Corner Setback

2) Implementation of Green Building Measures

MS-2.2: Encourage maximized use of on-site generation of renewable energy for all new and existing buildings.

Consistent. The proposed project would include rooftop solar panels. As a low-rise residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

MS-2.3: Encourage consideration of solar orientation, including building placement, landscaping, design and construction techniques for new construction to minimize energy consumption.

Consistent. The proposed project would include rooftop solar panels. As a low-rise residential development, the proposed project would be required to comply with the standards contained in the

2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

MS-2.7: Encourage the installation of solar panels or other clean energy power generation sources over parking areas.

Consistent. The proposed project would include rooftop solar panels. As a Single-Family Residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

MS-2.11: Require new development to incorporate green building practices, including those required by the Green Building Ordinance. Specifically, target reduced energy use through construction techniques (e.g., design of building envelopes and systems to maximize energy performance), through architectural design (e.g., design to maximize cross ventilation and interior daylight) and through site design techniques (e.g., orienting buildings on sites to maximize the effectiveness of passive solar design).

Consistent. The proposed project would include green building design features such as, providing outdoor lighting and new light fixtures that would comply with the San José Outdoor Lighting Policy, including lighting for pedestrian walkways and building exteriors, security lighting, and parking garage lighting. Furthermore, the proposed project would include rooftop solar panels consistent with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8. Therefore, the proposed project would be compliant with this checklist item.

MS-16.2: Promote neighborhood-based distributed clean/renewable energy generation to improve local energy security and to reduce the amount of energy wasted in transmitting electricity over long distances.

Consistent. The proposed project would include rooftop solar panels which would provide renewable energy on-site. As a low-rise residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

3) Pedestrian, Bicycle & Transit Site Design Measures

CD-2.1: Promote the Circulation Goals and Policies in the Envision San José 2040 General Plan. Create streets that promote pedestrian and bicycle transportation by following applicable goals and policies in the Circulation section of the Envision San José 2040 General Plan.

Consistent. Currently, there are no existing bicycle lanes adjacent to the project site. The nearest bicycle route is a Class II Bike Lane on Santa Teresa Boulevard approximately 350 feet north of the project site. This bike lane connects to Snell Avenue, Cottle Road, and beyond to other bike lanes in the City's network. In accordance with the City's Municipal Code Chapter 20.90, the proposed project would provide bicycle parking as required (none for single family dwelling and one per four living units for multiple dwelling). The proposed park would include garage spaces which could provide bike storage space for residents, which would encourage the use of alternative modes of transportation such as bicycles.

Therefore, the proposed project would be compliant with this checklist item.

CD-2.5: Integrate Green Building Goals and Policies of the Envision San José 2040 General Plan into site design to create healthful environments. Consider factors such as shaded parking areas, pedestrian connections, minimization of impervious surfaces, incorporation of stormwater treatment measures, appropriate building orientations, etc.

Consistent. In accordance with the City's Reach Code, the proposed project would include an all-electric design and would not include natural gas hook-ups or infrastructure. In addition, the proposed project would include drought tolerant landscaping on-site as well as trees planted on-site, which would be installed along setbacks and in common areas on the project site consistent with the City's plant palette and low water irrigation requirements.

Continuous sidewalks are currently provided along both Cozy Drive and Glider Drive and throughout the residential neighborhoods surrounding the project site. All of the proposed internal streets would include sidewalks on both sides.

A water quality/flow control basin would be provided in the park on the proposed project site.

Therefore, the proposed project would be compliant with this checklist item.

CD-2.11: Within the Downtown and Urban Village Overlay areas, consistent with the minimum density requirements of the pertaining Land Use/Transportation Diagram designation, avoid the construction of surface parking lots except as an interim use, so that long-term development of the site will result in a cohesive urban form. In these areas, whenever possible, use structured parking, rather than surface parking, to fulfill parking requirements. Encourage the incorporation of alternative uses, such as parks, above parking structures.

Not Applicable. The project site is not located in the Downtown and Urban Village Overlay area.

CD-3.2: Prioritize pedestrian and bicycle connections to transit, community facilities (including schools), commercial areas, and other areas serving daily needs. Ensure that the design of new facilities can accommodate significant anticipated future increases in bicycle and pedestrian activity.

Consistent. The proposed project would include garage spaces which could provide bike storage space for residents, which would encourage the use of alternative modes of transportation such as bicycles.

Bus transit services in the vicinity of the project site are provided by Santa Clara Valley Transportation Authority (VTA). The closest bus stop is located at the intersection of Santa Teresa Boulevard and Dunn Avenue approximately 0.22 mile north of the project site. The next closest bus stop is located at the intersection of Santa Teresa Boulevard and Snell Avenue, approximately 0.31-mile northwest of the project site. The proposed project is in close proximity to existing transit and would be compliant with this checklist item.

CD-3.4: Encourage pedestrian cross-access connections between adjacent properties and require pedestrian and bicycle connections to streets and other public spaces, with particular attention and priority given to providing convenient access to transit facilities. Provide pedestrian and vehicular

connections with cross-access easements within and between new and existing developments to encourage walking and minimize interruptions by parking areas and curb cuts.

Consistent. Continuous sidewalks are currently provided along both Cozy Drive and Glider Drive and throughout the residential neighborhoods surrounding the project site. All of the proposed internal streets would include sidewalks on both sides. In addition, the proposed project would not disrupt existing bicycle facilities or create conflicts with future bicycle facilities. Therefore, the proposed project would encourage pedestrian cross-access connections and would be compliant with this checklist item.

LU-3.5: Balance the need for parking to support a thriving Downtown with the need to minimize the impacts of parking upon a vibrant pedestrian and transit oriented urban environment. Provide for the needs of bicyclists and pedestrians, including adequate bicycle parking areas and design measures to promote bicyclist and pedestrian safety.

Not Applicable. The proposed project would not be located in Downtown. Therefore, this measure is not applicable to the proposed project.

TR-2.8: Require new development to provide on-site facilities such as bicycle storage and showers, provide connections to existing and planned facilities, dedicate land to expand existing facilities or provide new facilities such as sidewalks and/or bicycle lanes/paths, or share in the cost of improvements.

Consistent. The proposed project is a single-family and duplex development and would include garages for residents to park their bikes. All of the proposed internal streets would include sidewalks on both sides.

TR-7.1: Require large employers to develop TDM programs to reduce the vehicle trips and vehicle miles generated by their employees through the use of shuttles, provision for car-sharing, bicycle sharing, carpool, parking strategies, transit incentives and other measures.

Not applicable. The proposed project would be residential in nature and would not result in permanent employment.

TR-8.5: Promote participation in car share programs to minimize the need for parking spaces in new and existing development.

Not Applicable. As a residential development the proposed project would not promote car share programs.

4) Water Conservation and Urban Forestry Measures

MS-3.1: Require water-efficient landscaping, which conforms to the State's Model Water Efficient Landscape Ordinance, for all new commercial, institutional, industrial and developer-installed residential development unless for recreation needs or other area functions.

Consistent. The proposed project would include drought tolerant landscaping on-site as well as trees planted on-site, which would be installed along setbacks and in common areas on the project site consistent with the City's plant palette and low water irrigation requirements. Therefore, the proposed project would be compliant with this checklist item.

MS-3.2: Promote the use of green building technology or techniques that can help reduce the depletion of the City's potable water supply, as building codes permit. For example, promote the use of captured rainwater, graywater, or recycled water as the preferred source for non-potable water needs such as irrigation and building cooling, consistent with Building Codes or other regulations.

Consistent. The proposed project would include new appliances consistent with the California Building Code and City of San Jose requirements which would reduce potable water demand. The proposed project would include the installation of bioretention areas for stormwater. The bioretention areas reduce the level of treatment required for stormwater runoff from the site and provide for improved on-site irrigation of the landscaping, thereby reducing water consumption. Therefore, the proposed project would be compliant with this checklist item.

MS-19.4: Require the use of recycled water wherever feasible and cost-effective to serve existing and new development.

Not applicable. The proposed project would not include recycled water systems; however, the proposed project would comply with all mandatory regulations enforced by the City.

MS-21.3: Ensure that San José's Community Forest is comprised of species that have low water requirements and are well adapted to its Mediterranean climate. Select and plant diverse species to prevent monocultures that are vulnerable to pest invasions. Furthermore, consider the appropriate placement of tree species and their lifespan to ensure the perpetuation of the Community Forest.

Consistent. The proposed project would include drought tolerant landscaping on-site as well as trees planted on-site, which would be installed along setbacks and in common areas on the project site consistent with the City's plant palette and low water irrigation requirements. Therefore, the proposed project would be compliant with this checklist item.

MS-26.1: As a condition of new development, require the planting and maintenance of both street trees and trees on private property to achieve a level of tree coverage in compliance with and that implements City laws, policies or guidelines.

Consistent. See Response to MS-21.3.

ER-8.7: Encourage stormwater reuse for beneficial uses in existing infrastructure and future development through the installation of rain barrels, cisterns, or other water storage and reuse facilities.

Not Applicable. Not proposed as part of the project. The project would include drought-tolerant landscaping consistent with City laws, policies, and guidelines. The proposed project would include the installation of bioretention areas for stormwater. The bioretention areas reduce the level of treatment required for stormwater runoff from the site and provide for improved on-site irrigation of the landscaping, thereby reducing water consumption.

Table B: 2030 Greenhouse Gas Reduction Strategy Compliance

Part 1: Residential Projects Only

Zero Net Carbon Residential Construction.

Compliant. The proposed project would comply with the City's reach code and would be designed to be all-electric and would not include natural gas infrastructure or appliances. The proposed project would include rooftop solar panels which would provide renewable energy on-site. As a low-rise residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels.

Part 2: Residential and Non-Residential Projects

Renewable Energy Development

Compliant. The proposed project would include rooftop solar panels. As a low-rise residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.

Building Retrofits – Natural Gas

Not applicable. The proposed project would involve the new development of residences and would not constitute a renovation. Nonetheless, the proposed project would include an all-electric design and would not include natural gas hook-ups or infrastructure.

Zero Waste Goal

Compliant. The proposed project would be served by California Waste Solutions, which provides recycling collection, junk pickup, and used motor oil and filter collection. Garbage service would be provided by Garden City Sanitation, and GreenWaste Recovery would collect yard trimmings and provide street sweeping services. Garbage and recycling services would be provided on a weekly basis. Moreover, the proposed project would be required to divert at least 65 percent of waste generated during construction and demolition activities, in compliance with SB 1374 and CALGreen Sections 4.408, 5.408, 301.1.1, and 301.3.

Caltrain Modernization

Not applicable. The proposed project is not located within 0.5 mile radius of the nearest Caltrain station. However, the proposed project is within walking distance to nearby bus stations.

Water Conservation

Compliant. The proposed project would include the installation of bioretention areas for stormwater. The bioretention areas reduce the level of treatment required for stormwater runoff from the site and provide for improved on-site irrigation of the landscaping, thereby reducing water consumption.



DEPARTMENT OF PLANNING, BUILDING AND CODE ENFORCEMENT

Purpose of the Compliance Checklist

In 2020, the City adopted a Greenhouse Gas Reduction Strategy (GHGRS) that outlines the actions the City will undertake to achieve its proportional share of State greenhouse gas (GHG) emission reductions for the interim target year 2030. The purpose of the Greenhouse Gas Reduction Strategy Compliance Checklist (Checklist) is to:

- Implement GHG reduction strategies from the 2030 GHGRS to new development projects.
- Provide a streamlined review process for proposed new development projects that are subject to discretionary review and trigger environmental review pursuant to the California Environmental Quality Act (CEQA).

The 2030 GHGRS presents the City's comprehensive path to reduce GHG emissions to achieve the 2030 reduction target, based on SB 32, BAAQMD, and OPR. Additionally, the 2030 GHGRS leverages other important City plans and policies; including the General Plan, Climate Smart San José, and the City Municipal Code in identifying reductions strategies that achieve the City's target. CEQA Guidelines Section 15183.5 allows for public agencies to analyze and mitigate GHG emissions as part of a larger plan for the reduction of greenhouse gases. Accordingly, the City of San José's 2030 GHGRS represents San José's qualified climate action plan in compliance with CEQA.

As described in the 2030 GHGRS, these GHG reductions will occur through a combination of City initiatives in various plans and policies and will provide reductions from both existing and new developments. This Compliance Checklist specifically applies to proposed discretionary projects that require environmental review pursuant to CEQA. Therefore, the Checklist is a critical implementation tool in the City's overall strategy to reduce GHG emissions. Implementation of applicable reduction actions in new development projects will help the City achieve incremental reductions toward its target. Per the 2030 GHGRS, the City will monitor strategy implementation and make updates, as necessary, to maintain an appropriate trajectory to the 2030 GHG target.

Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of the GHGRS.

Instructions for Compliance Checklist

Applicants shall complete the following sections to demonstrate conformance with the City of San José 2030 Greenhouse Gas Reduction Strategy for the proposed project. All projects must complete Section A. General Plan Policy Conformance and Section B. Greenhouse Gas Reduction Strategies. Projects that propose alternative GHG mitigation measures must also complete Section C. Alternative Project Measures and Additional GHG Reductions.

A. General Plan Policy Compliance

Projects need to demonstrate consistency with the Envision San José 2040 General Plan's relevant policies for Land Use & Design, Transportation, Green Building, and Water Conservation, enumerated in Table A. All applicants shall complete the following steps.

1. Complete Table A, Item #1 to demonstrate the project's consistency with the General Plan Land Use and Circulation Diagram.
2. Complete Table A, Items #2 through #4 to demonstrate the project's consistency with General Plan policies¹ related to green building; pedestrian, bicycle & transit site design; and water conservation and urban forestry, as applicable. For each policy listed, mark the relevant yes/no check boxes to indicate project consistency, and provide a qualitative description of how the policy is implemented in the proposed project or why the policy is not applicable to the proposed project. Qualitative descriptions can be included in Table A or provided as separate attachments. This explanation will provide the basis for analysis in the CEQA document.

B. Greenhouse Gas Reduction Strategies

Table B identifies the GHGRS strategies and recommended consistency options. Projects need to demonstrate consistency with the GHGRS reduction strategies listed in Table B or document why the strategies are not applicable or are infeasible. The corresponding GHGRS strategies are indicated in the table to provide additional context, with the full text of the strategies preceding Table B.

Residential projects must complete Table B, Part 1 and 2; Non-residential projects must complete Table B, Part 2 only. All applicants shall complete the following steps for Table B.

1. Review the project consistency options described in the column titled 'GHGRS Strategy and Consistency Options'.
2. Use the check boxes in the column titled "Project Conformance" to indicate if the strategy is 'Proposed', 'Not Applicable', 'Not Feasible', or if there is an 'Alternative Measure Proposed'.

¹ The lists in items # 2-4 do not represent all General Plan policies but allow projects to demonstrate consistency and achievement of policies that are related to quantified reduction estimates in the 2030 GHGRS.

3. Provide a qualitative analysis of the proposed project's compliance with the GHGRS strategies in the column titled "Description of Project Measure". This will be the basis for CEQA analysis to demonstrate compliance with the 2030 GHGRS and by extension, with SB 32. The qualitative analysis should provide:
 - a. A description of which consistency options are included as part of the proposed project, or
 - b. A description of why the strategy is not applicable to the proposed project, or
 - c. A description of why the consistency options are infeasible. If applicants select 'Not Feasible' or 'Alternative Measure Proposed', they must complete Table C to document what alternative project measures will be implemented to achieve a similar level of greenhouse gas reduction and how those reduction estimates were calculated.

C. Alternative Project Measures and Additional GHG Reductions

Projects that propose alternative GHG mitigation measures to those identified in Table B or propose to include additional GHG mitigation measures beyond those described in Tables A and B, shall provide a summary explanation of the proposed measures and demonstrate efficiency or greenhouse gas reductions achievable through the proposed measures. Documentation for these alternative or additional project measures shall be documented in Table C. Any applicants who select 'Not Feasible' or 'Alternative Measure Proposed' in Table B must complete the following steps for Table C.

1. In the column titled "Description of Proposed Measure" provide a qualitative description of what measure will be implemented, why it is proposed, and how it will reduce GHG emissions.
2. In the column titled "Description of GHG Reduction Estimate" demonstrate how the alternative project measure would achieve the same or greater level of greenhouse gas reductions as the GHGRS strategy it replaces. Documentation or calculation files can be attached separately.
3. In the column titled "Proposed Measure Implementation" identify how the measure will be implemented: incorporated as part of the project design or as an additional measure that is not part of the project (e.g., purchase of carbon offsets).

Compliance Checklist

Evaluation of Project Conformance with the 2030 Greenhouse Gas Reduction Strategy

Table A: General Plan Consistency

Development Type: ☐ Commercial ☒ Residential ☐ Office ☐ Other: Specify

1) Consistency with the Land Use/Transportation Diagram (Land Use and Density)	Yes	No
<i>Is the proposed Project consistent with the Land Use/Transportation Diagram?</i>	☐	☒
<i>If not, and the proposed project includes a General Plan Amendment, does the proposed amendment decrease GHG emissions (in absolute terms or per capita, per employee, per service population) below the level assumed in the GHGRS based on the existing planned land use? (The project could have a higher density, mix of uses, or other features that would reduce GHG emissions compared to the planned land use).²</i>	☐	☒
<i>If not, would the proposed project and the General Plan Amendment increase GHG emissions (in absolute terms or per capita, per employee, per service population)? Project is not consistent with GHGRS and further modeling will be required to determine if additional mitigation measures are necessary.</i>	☐	☒

Response documentation:

The project site is designated Public/Quasi Public (PQP) under the Envision San José 2040 General Plan and is zoned Single-Family Residential (R-1-8). The PQP land use designation designates public land uses, including schools, colleges, corporation yards, homeless shelters, permanent supporting housing, libraries, fire stations, water treatment facilities, convention centers, museums, governmental offices, and airports. It also incorporates various private uses, such as private schools, daycare centers, hospitals, and public utilities.

However, the R-1-8 zoning district allows residential density of up to 8 dwelling units per acre (du/ac). The R-1-8 zoning district permits one-family dwellings, accessory dwelling units (ADUs), residential accessory buildings and structures, and various other uses. The minimum permitted lot area is 5,445 square feet, and the maximum allowed height is 35 feet.

The proposed project includes the demolition of the existing school, and the development of 64 single family residential lots and 8 duplexes for a total of 80 residential units. The corresponding density would be 8.4 density units per acre (du/ac).

2) Implementation of Green Building Measures	Yes	No
MS-2.2: Encourage maximized use of on-site generation of renewable energy for all new and existing buildings.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment] The proposed project would include rooftop solar panels. As a low-rise residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item		
MS-2.3: Encourage consideration of solar orientation, including building placement, landscaping, design and construction techniques for new construction to minimize energy consumption.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment] The proposed project would include rooftop solar panels. As a low-rise residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item		
MS-2.7: Encourage the installation of solar panels or other clean energy power generation sources over parking areas.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment] The proposed project would include rooftop solar panels. As a Single-Family Residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item.		
MS-2.11: Require new development to incorporate green building practices, including those required by the Green Building Ordinance. Specifically, target reduced energy use through construction techniques (e.g., design of building envelopes and systems to maximize energy performance), through architectural design (e.g., design to maximize cross ventilation and interior daylight) and through site design techniques (e.g., orienting buildings on sites to maximize the effectiveness of passive solar design).	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment] The proposed project would include green building design features such as, providing outdoor lighting and new light fixtures that would comply with the San José Outdoor Lighting Policy, including lighting for pedestrian walkways and building exteriors, security lighting, and parking garage lighting. Furthermore, the proposed project would include rooftop solar panels consistent with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8. Therefore, the proposed project would be compliant with this checklist item.		
MS-16.2: Promote neighborhood-based distributed clean/renewable energy generation to improve local energy security and to reduce the amount of energy wasted in transmitting electricity over long distances.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment] The proposed project would include green building design features such as, providing outdoor lighting and new light fixtures that would comply with the San José Outdoor Lighting Policy, including lighting for pedestrian walkways and building exteriors, security lighting, and parking garage lighting. Furthermore, the proposed project would include rooftop solar panels consistent with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8. Therefore, the proposed project would be compliant with this checklist item.		

3) Pedestrian, Bicycle & Transit Site Design Measures	Yes	No
CD-2.1: Promote the Circulation Goals and Policies in the Envision San José 2040 General Plan. Create streets that promote pedestrian and bicycle transportation by following applicable goals and policies in the Circulation section of the Envision San José 2040 General Plan.		
a) Design the street network for its safe shared use by pedestrians, bicyclists, and vehicles. Include elements that increase driver awareness.	☒	☐
b) Create a comfortable and safe pedestrian environment by implementing wider sidewalks, shade structures, attractive street furniture, street trees, reduced traffic speeds, pedestrian-oriented lighting, mid-block pedestrian crossings, pedestrian-activated crossing lights, bulb-outs and curb extensions at intersections, and on-street parking that buffers pedestrians from vehicles.	☒	☐
c) Consider support for reduced parking requirements, alternative parking arrangements, and Transportation Demand Management strategies to reduce area dedicated to parking and increase area dedicated to employment, housing, parks, public art, or other amenities. Encourage de-coupled parking to ensure that the value and cost of parking are considered in real estate and business transactions.	☐	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		

Currently, there are no existing bicycle lanes adjacent to the project site. The nearest bicycle route is a Class II Bike Lane on Santa Teresa Boulevard approximately 350 feet north of the project site. This bike lane connects to Snell Avenue, Cottle Road, and beyond to other bike lanes in the City's network. In accordance with the City's Municipal Code Chapter 20.90, the proposed project would provide bicycle parking as required (none for single family dwelling and one per four living units for multiple dwelling). The proposed park would include garage spaces which could provide bike storage space for residents, which would encourage the use of alternative modes of transportation such as bicycles.

CD-2.5: Integrate Green Building Goals and Policies of the Envision San José 2040 General Plan into site design to create healthful environments. Consider factors such as shaded parking areas, pedestrian connections, minimization of impervious surfaces, incorporation of stormwater treatment measures, appropriate building orientations, etc.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
In accordance with the City's Reach Code, the proposed project would include an all-electric design and would not include natural gas hook-ups or infrastructure. In addition, the proposed project would include drought tolerant landscaping on-site as well as trees planted on-site, which would be installed along setbacks and in common areas on the project site consistent with the City's plant palette and low water irrigation requirements.		

	Yes	No
CD-2.11: Within the Downtown and Urban Village Overlay areas, consistent with the minimum density requirements of the pertaining Land Use/Transportation Diagram designation, avoid the construction of surface parking lots except as an interim use, so that long-term development of the site will result in a cohesive urban form. In these areas, whenever possible, use structured parking, rather than surface parking, to fulfill parking requirements. Encourage the incorporation of alternative uses, such as parks, above parking structures.	☐	☐
Not applicable	☒	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		

The project site is not located in the Downtown and Urban Village Overlay area.

CD-3.2: Prioritize pedestrian and bicycle connections to transit, community facilities (including schools), commercial areas, and other areas serving daily needs. Ensure that the design of new facilities can accommodate significant anticipated future increases in bicycle and pedestrian activity.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
The proposed project would include garage spaces which could provide bike storage space for residents, which would encourage the use of alternative modes of transportation such as bicycles. Bus transit services in the vicinity of the project site are provided by Santa Clara Valley Transportation Authority (VTA). The closest bus stop is located at the intersection of Santa Teresa Boulevard and Dunn Avenue approximately 0.22 mile north of the project site. The next closest bus stop is located at the intersection of Santa Teresa Boulevard and Snell Avenue, approximately 0.31-mile northwest of the project site. The proposed project is in close proximity to existing transit and would be compliant with this checklist item.		
CD-3.4: Encourage pedestrian cross-access connections between adjacent properties and require pedestrian and bicycle connections to streets and other public spaces, with particular attention and priority given to providing convenient access to transit facilities. Provide pedestrian and vehicular connections with cross-access easements within and between new and existing developments to encourage walking and minimize interruptions by parking areas and curb cuts.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		

Continuous sidewalks are currently provided along both Cozy Drive and Glider Drive and throughout the residential neighborhoods surrounding the project site. All of the proposed internal streets would include sidewalks on both sides. In addition, the proposed project would not disrupt existing bicycle facilities or create conflicts with future bicycle facilities. Therefore, the proposed project would encourage pedestrian cross-access connections and would be compliant with this checklist item

LU-3.5: Balance the need for parking to support a thriving Downtown with the need to minimize the impacts of parking upon a vibrant pedestrian and transit oriented urban environment. Provide for the needs of bicyclists and pedestrians, including adequate bicycle parking areas and design measures to promote bicyclist and pedestrian safety.	☐	☐
Not applicable	☒	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		

The proposed project would not be located in Downtown. Therefore, This measure is not applicable to the proposed project

	Yes	No
TR-2.8: Require new development to provide on-site facilities such as bicycle storage and showers, provide connections to existing and planned facilities, dedicate land to expand existing facilities or provide new facilities such as sidewalks and/or bicycle lanes/paths, or share in the cost of improvements.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
The proposed project is a single-family and duplex development and would include garages for residents to park their bikes. All of the proposed internal streets would include sidewalks on both sides.		

TR-7.1: Require large employers to develop TDM programs to reduce the vehicle trips and vehicle miles generated by their employees through the use of shuttles, provision for car-sharing, bicycle sharing, carpool, parking strategies, transit incentives and other measures.	☐	☐
Not applicable	☒	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
The proposed project would be residential in nature and would not result in permanent employment.		

TR-8.5: Promote participation in car share programs to minimize the need for parking spaces in new and existing development.	☐	☐
Not applicable	☒	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
As a residential development the proposed project would not promote car share programs.		

4) Water Conservation and Urban Forestry Measures	Yes	No
MS-3.1: Require water-efficient landscaping, which conforms to the State's Model Water Efficient Landscape Ordinance, for all new commercial, institutional, industrial and developer-installed residential development unless for recreation needs or other area functions.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
The proposed project would include drought tolerant landscaping on-site as well as trees planted on-site, which would be installed along setbacks and in common areas on the project site consistent with the City's plant palette and low water irrigation requirements. Therefore, the proposed project would be compliant with this checklist item.		

	Yes	No
MS-3.2: Promote the use of green building technology or techniques that can help reduce the depletion of the City's potable water supply, as building codes permit. For example, promote the use of captured rainwater, graywater, or recycled water as the preferred source for non-potable water needs such as irrigation and building cooling, consistent with Building Codes or other regulations.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
The proposed project would include new appliances consistent with the California Building Code and City of San Jose requirements which would reduce potable water demand. The proposed project would include the installation of bioretention areas for stormwater. The bioretention areas reduce the level of treatment required for stormwater runoff from the site and provide for improved on-site irrigation of the landscaping, thereby reducing water consumption. Therefore, the proposed project would be compliant with this checklist item.		
MS-19.4: Require the use of recycled water wherever feasible and cost-effective to serve existing and new development.	☐	☐
Not applicable	☒	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
The proposed project would not include recycled water systems; however, the proposed project would comply with all mandatory regulations enforced by the City.		
MS-21.3: Ensure that San José's Community Forest is comprised of species that have low water requirements and are well adapted to its Mediterranean climate. Select and plant diverse species to prevent monocultures that are vulnerable to pest invasions. Furthermore, consider the appropriate placement of tree species and their lifespan to ensure the perpetuation of the Community Forest.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
The proposed project would include drought tolerant landscaping on-site as well as trees planted on-site, which would be installed along setbacks and in common areas on the project site consistent with the City's plant palette and low water irrigation requirements. Therefore, the proposed project would be compliant with this checklist item.		
MS-26.1: As a condition of new development, require the planting and maintenance of both street trees and trees on private property to achieve a level of tree coverage in compliance with and that implements City laws, policies or guidelines.	☒	☐
Not applicable	☐	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
See Response to MS-21.3.		

	Yes	No
ER-8.7: Encourage stormwater reuse for beneficial uses in existing infrastructure and future development through the installation of rain barrels, cisterns, or other water storage and reuse facilities.	☐	☐
Not applicable	☒	☐
Describe how the project is consistent or why the measure is not applicable. [Either here or as an attachment]		
Not proposed as part of the project. The project would include drought-tolerant landscaping consistent with City laws, policies, and guidelines. The proposed project would include the installation of bioretention areas for stormwater. The bioretention areas reduce the level of treatment required for stormwater runoff from the site and provide for improved on-site irrigation of the landscaping, thereby reducing water consumption		

GHGRS Strategies

GHGRS #1: The City will implement the San José Clean Energy program to provide residents and businesses access to cleaner energy at competitive rates.

GHGRS #2: The City will implement its building reach code ordinance (adopted September 2019) and its prohibition of natural gas infrastructure ordinance (adopted October 2019) to guide the city's new construction toward zero net carbon (ZNC) buildings.

GHGRS #3: The City will expand development of rooftop solar energy through the provision of technical assistance and supportive financial incentives to make progress toward the Climate Smart San José goal of becoming a one-gigawatt solar city.

GHGRS #4: The City will support a transition to building decarbonization through increased efficiency improvements in the existing building stock and reduced use of natural gas appliances and equipment.

GHGRS #5: As an expansion to Climate Smart San José, the City will update its Zero Waste Strategic Plan and reassess zero waste strategies. Throughout the development of the update, the City will continue to divert 90 percent of waste away from landfills through source reduction, recycling, food recovery and composting, and other strategies.

GHGRS #6: The City will continue to be a partner in the Caltrain Modernization Project to enhance local transit opportunities while simultaneously improving the city's air quality.

GHGRS #7: The City will expand its water conservation efforts to achieve and sustain long-term per capita reductions that ensure a reliable water supply with a changing climate, through regional partnerships, sustainable landscape designs, green infrastructure, and water-efficient technology and systems.

Table B: 2030 Greenhouse Gas Reduction Strategy Compliance

GHGRS Strategy and Consistency Options	Description of Project Measure	Project Conformance
PART 1: RESIDENTIAL PROJECTS ONLY		
Zero Net Carbon Residential Construction 1. Achieve/exceed the City's Reach Code, and 2. Exclude natural gas infrastructure in new construction, or 3. Install on-site renewable energy systems or participate in a community solar program to offset 100% of the project's estimated energy demand, or 4. Participate in San José Clean Energy at the Total Green level (i.e., 100% carbon-free electricity) for electricity accounts associated with the project until which time SJCE achieves 100% carbon-free electricity for all accounts. Supports Strategies: GHGRS #1, GHGRS #2, GHGRS #3	<i>Describe which, if any, project consistency options from the leftmost column you are implementing.</i> <i>OR,</i> <i>Describe why this strategy is not applicable to your project.</i> <i>OR,</i> <i>Describe why such measures are infeasible.</i> The proposed project would comply with the City's reach code and would be designed to be all-electric and would not include natural gas infrastructure or appliances. The proposed project would include rooftop solar panels which would provide renewable energy on-site. As a residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels.	☒ Proposed ☐ Not Applicable ☐ Not Feasible* ☐ Alternative Measure Proposed <i>* The 2030 GHGRS assumed this strategy would be feasible for 50% of residential units constructed between 2020 and 2030.</i>
PART 2: RESIDENTIAL AND NON-RESIDENTIAL PROJECTS		
Renewable Energy Development 1. Install solar panels, solar hot water, or other clean energy power generation sources on development sites, or 2. Participate in community solar programs to support development of renewable energy in the community, or 3. Participate in San José Clean Energy at the Total Green level (i.e., 100% carbon-free electricity) for electricity accounts associated with the project. Supports Strategies: GHGRS #1, GHGRS #3	<i>Describe which, if any, project consistency options from the leftmost column you are implementing.</i> <i>OR,</i> <i>Describe why this strategy is not applicable to your project.</i> <i>OR,</i> <i>Describe why such measures are infeasible.</i> The proposed project would include rooftop solar panels. As a residential development, the proposed project would be required to comply with the standards contained in the 2022 CBC, Title 24, Part 6, Subchapter 8, which includes rooftop solar panels. Therefore, the proposed project would be compliant with this checklist item	☐ See Part 1 (Residential projects only) ☒ Proposed ☐ Not Applicable ☐ Not Feasible ☐ Alternative Measure Proposed

GHGRS Strategy and Consistency Options	Description of Project Measure	Project Conformance
Building Retrofits – Natural Gas³ This strategy only applies to projects that include a retrofit of an existing building. If the proposed project does not include a retrofit, select “Not Applicable” in the Project Conformance column. 1. Replace an existing natural gas appliance with an electric alternative (e.g., space heater, water heater, clothes dryer), or 2. Replace an existing natural gas appliance with a high-efficiency model Supports Strategies: GHGRS #4	<i>Describe which, if any, project consistency options from the leftmost column you are implementing.</i> <i>OR,</i> <i>Describe why this strategy is not applicable to your project.</i> <i>OR,</i> <i>Describe why such measures are infeasible.</i> The proposed project would involve the new development of residences and would not constitute a renovation. Nonetheless, the proposed project would include an all-electric design and would not include natural gas hook-ups or infrastructure.	☐ Proposed ☒ Not Applicable ☐ Not Feasible ☐ Alternative Measure Proposed
Zero Waste Goal 1. Provide space for organic waste (e.g., food scraps, yard waste) collection containers, and/or 2. Exceed the City’s construction & demolition waste diversion requirement. Supports Strategies: GHGRS #5	<i>Describe which, if any, project consistency options from the leftmost column you are implementing.</i> <i>OR,</i> <i>Describe why this strategy is not applicable to your project.</i> <i>OR,</i> <i>Describe why such measures are infeasible.</i> The proposed project would be served by California Waste Solutions, which provides recycling collection, junk pickup, and used motor oil and filter collection. Garbage service would be provided by Garden City Sanitation, and GreenWaste Recovery would collect yard trimmings and provide street sweeping	☒ Proposed ☐ Not Applicable ☐ Not Feasible ☐ Alternative Measure Proposed
	services. Garbage and recycling services would be provided on a weekly basis. Moreover, the proposed project would be required to divert at least 65 percent of waste generated during construction and demolition activities, in compliance with SB 1374 and CALGreen Sections 4.408, 5.408, 301.1.1, and 301.3.	

³ GHGRS Strategy #4 applies to existing building retrofits and not to new construction; Strategy #2 applies to new construction to reduce natural gas related GHG emissions

GHGRS Strategy and Consistency Options	Description of Project Measure	Project Conformance
Caltrain Modernization - For projects located within ½ mile of a Caltrain station, establish a program through which to provide project tenants and/or residents with free or reduced Caltrain passes or - Develop a program that provides project tenants and/or residents with options to reduce their vehicle miles traveled (e.g., a TDM program), which could include transit passes, bike lockers and showers, or other strategies to reduce project related VMT. Supports Strategies: GHGRS #6	<i>Describe which, if any, project consistency options from the leftmost column you are implementing.</i> OR, <i>Describe why this strategy is not applicable to your project.</i> OR, <i>Describe why such measures are infeasible.</i> The proposed project is not located within 0.5 mile radius of the nearest Caltrain station. However, the proposed project is within walking distance to nearby bus stations.	☐ Proposed ☒ Not Applicable ☐ Not Feasible ☐ Alternative Measure Proposed
Water Conservation - Install high-efficiency appliances/fixtures to reduce water use, and/or include water-sensitive landscape design, and/or - Provide access to reclaimed water for outdoor water use on the project site. Supports Strategies: GHGRS #7	<i>Describe which, if any, project consistency options from the leftmost column you are implementing.</i> OR, <i>Describe why this strategy is not applicable to your project.</i> OR, <i>Describe why such measures are infeasible.</i> The proposed project would include the installation of bioretention areas for stormwater. The bioretention areas reduce the level of treatment required for stormwater runoff from the site and provide for improved on-site irrigation of the landscaping, thereby reducing water consumption.	☒ Proposed ☐ Not Applicable ☐ Not Feasible ☐ Alternative Measure Proposed

Table C: Applicant Proposed Greenhouse Gas Reduction Measures

Description of Proposed Measure	Description of GHG Reduction Estimate	Proposed Measure Implementation
<i>[Describe the proposed project measure and why it is proposed]</i> Supports Strategies/Sectors: GHGRS #	<i>[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions.</i> <i>Include a description of how your measure will reduce emissions and provide supporting quantification documentation/assumptions.]</i>	☐ Part of Design ☐ Additional Measure
<i>[Describe the proposed project measure and why it is proposed]</i> Supports Strategies/Sectors: GHGRS #	<i>[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions.</i> <i>Include a description of how your measure will reduce emissions and provide supporting quantification documentation/assumptions.]</i>	☐ Part of Design ☐ Additional Measure
<i>[Describe the proposed project measure and why it is proposed]</i> Supports Strategies/Sectors: GHGRS #	<i>[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions.</i> <i>Include a description of how your measure will reduce emissions and provide supporting quantification documentation/assumptions.]</i>	☐ Part of Design ☐ Additional Measure
<i>[Describe the proposed project measure and why it is proposed]</i> Supports Strategies/Sectors: GHGRS #	<i>[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions.</i> <i>Include a description of how your measure will reduce emissions and provide supporting quantification documentation/assumptions.]</i>	☐ Part of Design ☐ Additional Measure

This workbook calculates Construction Energy for Projects with Initial Construction Year between 2024 - 2025
It will work for ALL For Excel Outputs for CalEEMOD Runs with CONSTRUCTION Data

To link this to your excel file change the data source under "Get Data", "Data Source Settings", "Change Source"
You can browse to navigate to the source of data

The following Report Tabs are Required in the Excel Report

- 1.1 Basic Project Information
- 5.1 Construction Schedule
- 5.2.1 Off-Road Equipment
- 5.3.1 Construction Vehicles
- 5.8 Construction Electricity Consumption and Emissions Factors



E106A2E52:O91E52:O126E52:O166

Glider Residential Project

Summary of Fossil Fuel Energy Use During Construction

Construction equipment fuel	42,727	gallons (diesel)
Construction vehicle fuel	22,066	gallons (gasoline, diesel)
Total construction fuel	64,793	gallons (gasoline, diesel)

Summary of Energy Use During Construction - Electricity

Year	kWh per Year
2026	0
2027	0
2028	0

Glider Residential Project

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day
Demolition	Rubber Tired Dozers	Diesel	Average	2
Demolition	Excavators	Diesel	Average	3
Demolition	Concrete/Industrial Saws	Diesel	Average	1
Site Preparation	Rubber Tired Dozers	Diesel	Average	5
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	7
Grading	Graders	Diesel	Average	1
Grading	Excavators	Diesel	Average	1
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3
Grading	Rubber Tired Dozers	Diesel	Average	1
Building Construction	Forklifts	Diesel	Average	3
Building Construction	Generator Sets	Diesel	Average	1
Building Construction	Cranes	Diesel	Average	1
Building Construction	Welders	Diesel	Average	1
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3
Paving	Pavers	Diesel	Average	2
Paving	Paving Equipment	Diesel	Average	2
Paving	Rollers	Diesel	Average	2
Architectural Coating	Air Compressors	Diesel	Average	1

ARB 2021, Low Emission Diesel (LED) Study: Biodiesel and Renewable Diesel Emissions in Legacy and New
Average Value for CARB Reference Fuel - Nonroad Transient Cycle - BSFC = 0.054 gal/bhp-hr

Hours Per Day	Horsepower	Load Factor	PhaseDays	FuelConsumption
8	367	0.4	22	2790.4
8	36	0.38	22	390.0
8	33	0.73	22	229.0
8	367	0.4	6	1902.5
8	84	0.37	6	563.9
2	148	0.41	130	851.9
2	36	0.38	130	192.1
2	84	0.37	130	1309.1
2	367	0.4	130	2061.1
4	82	0.2	530	5632.4
4	14	0.74	530	1186.0
4	367	0.29	530	12184.1
4	46	0.45	530	2369.7
4	84	0.37	530	10674.1
8	81	0.42	4	117.6
8	89	0.36	4	110.7
8	36	0.38	4	47.3
6	37	0.48	20	115.1

W Technology Diesel Engines, November 2021

**Off-Road Construction Equipment
Fuel Consumption**

Glider Residential Project

Energy Calculations - Construction Vehicle Fuel

Source: AQ/GHG Appendix, CalEEMod Output, EMFAC2021 v1.0.2

Vehicle Type	Total VMT (mi)	mi/gal	gal	Vehicle Cat
Worker	209,421	27.44	7,631	LDA,LDT1,LDT2
Vendor	43,366	6.83	6,347	HHDT,MHDT
Hauling	48,340	5.98	8,088	HHDT
Onsite truck	0	5.98	0	HHDT
	301,126		22,066	gallons
Combined VMT				

Note: Fuel Economy Factors are from EMFAC2021 for:

Santa Clara

Data	Value
Project Name	Glider Residential Project
Construction Start Date	6/1/2026
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.4
Precipitation (days)	12.4
Location	511 Cozy Dr, San Jose, CA 95123, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1923
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.25

Glider Residential Project

Santa Clara

6/1/2026

2026

Phase Name	Phase Type	Start Date	End Date	Days Per Week
Demolition	Demolition	6/1/2026	6/30/2026	5
Site Preparation	Site Preparation	7/1/2026	7/8/2026	5
Grading	Grading	7/9/2026	1/6/2027	5
Building Construction	Building Construction	11/9/2026	11/17/2028	5
Paving	Paving	1/4/2027	1/7/2027	5
Architectural Coating	Architectural Coating	10/23/2028	11/17/2028	5

Work Days per Phase	Phase Description
22	per applicant schedule
6	per applicant schedule
130	per applicant schedule
530	per applicant schedule
4	per applicant schedule
20	assume same as default - last 20 days of big construction

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition				
Demolition	Worker	15	11.7	LDA,LDT1,LDT2
Demolition	Vendor		8.4	HHDT,MHDT
Demolition	Hauling	107.1363636	20	HHDT
Demolition	Onsite truck			HHDT
Site Preparation				
Site Preparation	Worker	30	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	5	8.4	HHDT,MHDT
Site Preparation	Hauling	0	20	HHDT
Site Preparation	Onsite truck			HHDT
Grading				
Grading	Worker	15	11.7	LDA,LDT1,LDT2
Grading	Vendor		8.4	HHDT,MHDT
Grading	Hauling	0.461538462	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Construction	Worker	28.8	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	8.552	8.4	HHDT,MHDT
Building Construction	Hauling	0	20	HHDT
Building Construction	Onsite truck			HHDT
Paving				
Paving	Worker	15	11.7	LDA,LDT1,LDT2
Paving	Vendor	150	8.4	HHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectural Coating	Worker	5.76	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor		8.4	HHDT,MHDT
Architectural Coating	Hauling	0	20	HHDT
Architectural Coating	Onsite truck			HHDT

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TOTAL of ALL PHASES
Worker
Vendor
Hauling
Onsite truck

Phase	Days	VMT
22		3861
22		0
22		47140
22		0
6		2106
6		252
6		0
6		0
130		22815
130		0
130		1200
130		0
530		178588.8
530		38073.504
530		0
530		0
4		702
4		5040
4		0
4		0
20		1347.84
20		0
20		0
20		0

209420.64
43365.504
48340
0

Year	kWh per Year	CO2	CH4	N2O	
2026		0	204	0	0
2027		0	204	0	0
2028		0	204	0	0

Sum of Population		Vehicle Category			
Region	Calendar Year	HHDT	LDA	LDT1	
Alameda	2024	15111.08	611439.59	51872.89	
Alameda	2025	15572.32	612776.14	50499.57	
Alameda	2026	15988.35	614469.80	49233.43	
Alameda	2027	16374.68	616276.23	48047.40	
Alameda	2028	16733.00	618189.52	46964.19	
Alameda	2029	17066.14	620165.32	45965.32	
Alameda	2030	17375.37	622248.80	45027.14	
Alameda Total		114220.93	4315565.40	337609.94	
Alpine	2024	83.28	2637.95	299.97	
Alpine	2025	85.11	2650.56	291.11	
Alpine	2026	87.14	2665.62	282.36	
Alpine	2027	89.11	2681.39	273.83	
Alpine	2028	91.06	2697.24	266.76	
Alpine	2029	92.95	2713.87	259.84	
Alpine	2030	94.67	2730.51	253.15	
Alpine Total		623.31	18777.14	1927.02	
Amador	2024	202.99	10128.45	2069.60	
Amador	2025	205.66	10199.51	1952.42	
Amador	2026	208.51	10289.81	1844.11	
Amador	2027	211.15	10395.34	1738.67	
Amador	2028	213.44	10500.33	1641.75	
Amador	2029	215.64	10612.36	1545.63	
Amador	2030	217.29	10724.27	1456.38	
Amador Total		1474.68	72850.07	12248.55	
Butte	2024	2498.01	71792.84	9905.79	
Butte	2025	2594.07	73416.18	9449.38	
Butte	2026	2690.34	75140.51	9022.68	
Butte	2027	2786.54	76941.91	8632.84	
Butte	2028	2883.33	78813.71	8280.92	
Butte	2029	2979.34	80716.94	7951.23	
Butte	2030	3075.00	82661.68	7640.65	
Butte Total		19506.64	539483.77	60883.50	
Calaveras	2024	300.98	12601.51	2674.89	
Calaveras	2025	303.76	12677.50	2523.21	
Calaveras	2026	306.47	12758.31	2379.93	
Calaveras	2027	309.58	12844.83	2244.88	
Calaveras	2028	312.47	12940.98	2117.49	
Calaveras	2029	314.47	13040.33	1995.36	
Calaveras	2030	315.56	13137.75	1874.87	
Calaveras Total		2163.30	90001.21	15810.63	
Colusa	2024	907.64	25266.29	2553.33	
Colusa	2025	929.40	25489.83	2470.82	
Colusa	2026	949.30	25717.90	2393.84	

Colusa	2027	969.09	25948.43	2324.08
Colusa	2028	987.63	26180.40	2262.57
Colusa	2029	1004.57	26415.33	2207.47
Colusa	2030	1019.82	26648.17	2155.46
Colusa Total		6767.45	181666.36	16367.57
Contra Costa	2024	5572.03	367627.90	32716.77
Contra Costa	2025	5740.07	369073.22	31736.74
Contra Costa	2026	5891.14	370780.76	30842.60
Contra Costa	2027	6033.81	372659.44	30016.82
Contra Costa	2028	6167.49	374659.25	29264.99
Contra Costa	2029	6293.74	376751.98	28559.33
Contra Costa	2030	6410.42	378942.07	27899.97
Contra Costa Total		42108.70	2610494.63	211037.22
Del Norte	2024	75.57	9688.59	1676.83
Del Norte	2025	76.13	9686.07	1584.46
Del Norte	2026	76.69	9700.60	1498.91
Del Norte	2027	77.23	9728.65	1418.95
Del Norte	2028	77.65	9766.11	1345.36
Del Norte	2029	77.38	9809.83	1276.10
Del Norte	2030	77.62	9853.05	1208.68
Del Norte Total		538.26	68232.91	10009.27
El Dorado	2024	568.53	47760.32	8038.05
El Dorado	2025	583.11	48572.78	7778.23
El Dorado	2026	596.37	49445.42	7530.00
El Dorado	2027	609.65	50341.78	7288.93
El Dorado	2028	623.24	51276.46	7053.33
El Dorado	2029	636.37	52227.68	6829.89
El Dorado	2030	648.91	53171.99	6607.02
El Dorado Total		4266.18	352796.43	51125.45
Fresno	2024	14845.66	338191.46	30682.79
Fresno	2025	15390.84	342641.43	29917.96
Fresno	2026	15905.84	347171.54	29248.96
Fresno	2027	16403.02	351735.98	28651.58
Fresno	2028	16883.65	356293.93	28140.15
Fresno	2029	17345.70	360739.76	27681.98
Fresno	2030	17790.58	365050.37	27259.39
Fresno Total		114565.31	2461824.47	201582.81
Glenn	2024	808.82	23921.56	2563.55
Glenn	2025	827.12	24228.70	2459.25
Glenn	2026	844.01	24562.06	2364.06
Glenn	2027	860.22	24904.61	2279.38
Glenn	2028	875.22	25255.56	2203.78
Glenn	2029	888.21	25602.10	2131.48
Glenn	2030	900.55	25933.46	2065.97
Glenn Total		6004.15	174408.05	16067.46
Humboldt	2024	1506.27	49768.05	9398.97
Humboldt	2025	1547.35	49801.25	8923.85

Humboldt	2026	1588.68	49871.12	8466.90
Humboldt	2027	1626.82	49990.85	8033.87
Humboldt	2028	1663.63	50144.86	7636.30
Humboldt	2029	1696.74	50312.39	7248.64
Humboldt	2030	1725.34	50498.23	6879.92
Humboldt Total		11354.83	350386.76	56588.44
Imperial	2024	5099.14	133567.44	13505.45
Imperial	2025	5318.66	134781.85	13095.03
Imperial	2026	5536.15	136007.37	12716.94
Imperial	2027	5755.41	137228.61	12369.45
Imperial	2028	5977.70	138470.81	12075.75
Imperial	2029	6202.70	139672.70	11803.09
Imperial	2030	6430.88	140852.77	11557.30
Imperial Total		40320.65	960581.54	87123.00
Inyo	2024	526.26	30656.52	3913.41
Inyo	2025	537.09	30797.83	3764.12
Inyo	2026	547.28	30955.98	3628.26
Inyo	2027	557.48	31118.45	3498.93
Inyo	2028	566.78	31287.93	3378.70
Inyo	2029	575.13	31456.25	3264.68
Inyo	2030	583.75	31623.38	3157.57
Inyo Total		3893.77	217896.33	24605.68
Kings	2024	4822.39	67501.92	5743.44
Kings	2025	4993.25	68115.44	5616.62
Kings	2026	5154.30	68743.15	5505.78
Kings	2027	5310.45	69363.01	5410.17
Kings	2028	5461.16	69971.65	5331.83
Kings	2029	5604.78	70569.78	5264.18
Kings	2030	5740.87	71165.41	5208.56
Kings Total		37087.21	485430.37	38080.58
Lake	2024	381.08	26235.76	4332.98
Lake	2025	389.63	26321.35	4087.82
Lake	2026	398.00	26438.14	3862.68
Lake	2027	405.65	26576.40	3648.60
Lake	2028	412.57	26737.75	3456.67
Lake	2029	418.23	26900.99	3273.86
Lake	2030	422.40	27069.41	3099.25
Lake Total		2827.56	186279.79	25761.86
Lassen	2024	181.67	18137.83	2740.85
Lassen	2025	185.13	18311.32	2619.06
Lassen	2026	188.93	18503.46	2506.19
Lassen	2027	192.99	18695.56	2401.95
Lassen	2028	197.13	18892.63	2304.99
Lassen	2029	200.73	19084.01	2214.89
Lassen	2030	204.25	19275.18	2127.32
Lassen Total		1350.83	130899.99	16915.27
Madera	2024	3418.09	62110.30	6514.51

Madera	2025	3507.66	62821.76	6264.53
Madera	2026	3588.18	63566.27	6037.32
Madera	2027	3661.16	64328.20	5832.86
Madera	2028	3726.51	65080.43	5648.06
Madera	2029	3783.88	65812.09	5479.31
Madera	2030	3833.31	66513.17	5326.84
Madera Total		25518.79	450232.22	41103.44
Marin	2024	906.50	117528.87	12261.85
Marin	2025	929.08	117383.73	11873.44
Marin	2026	949.65	117328.33	11511.28
Marin	2027	968.84	117303.82	11172.69
Marin	2028	986.38	117325.86	10857.81
Marin	2029	1002.49	117364.20	10561.18
Marin	2030	1016.90	117432.50	10268.98
Marin Total		6759.83	821667.32	78507.22
Mariposa	2024	80.58	4354.68	1205.08
Mariposa	2025	80.75	4360.56	1129.17
Mariposa	2026	81.05	4373.81	1052.06
Mariposa	2027	81.20	4388.16	982.70
Mariposa	2028	81.53	4406.87	917.45
Mariposa	2029	81.49	4428.09	857.18
Mariposa	2030	81.47	4444.50	797.60
Mariposa Total		568.07	30756.66	6941.25
Mendocino	2024	1759.69	49173.72	8167.10
Mendocino	2025	1812.24	49529.74	7782.03
Mendocino	2026	1863.71	49915.90	7418.02
Mendocino	2027	1912.07	50341.05	7075.46
Mendocino	2028	1959.20	50787.60	6761.22
Mendocino	2029	2003.53	51240.92	6462.62
Mendocino	2030	2044.09	51686.99	6179.65
Mendocino Total		13354.53	352675.91	49846.09
Merced	2024	8744.07	93610.87	8281.87
Merced	2025	9016.41	94444.60	7931.68
Merced	2026	9268.31	95338.36	7623.30
Merced	2027	9505.08	96282.37	7349.09
Merced	2028	9728.13	97258.69	7111.80
Merced	2029	9935.06	98252.39	6898.15
Merced	2030	10128.31	99276.41	6706.82
Merced Total		66325.36	674463.70	51902.72
Modoc	2024	110.65	7446.59	992.15
Modoc	2025	110.46	7454.01	948.39
Modoc	2026	110.70	7470.11	907.22
Modoc	2027	111.35	7490.67	868.62
Modoc	2028	112.56	7514.53	835.64
Modoc	2029	113.78	7540.64	803.29
Modoc	2030	114.70	7568.07	773.33
Modoc Total		784.20	52484.61	6128.64

Mono	2024	402.06	13391.61	1894.04
Mono	2025	410.08	13573.81	1828.82
Mono	2026	417.64	13764.65	1767.23
Mono	2027	425.21	13961.26	1707.04
Mono	2028	432.56	14157.77	1653.12
Mono	2029	439.12	14347.94	1600.40
Mono	2030	445.40	14535.60	1550.72
Mono Total		2972.08	97732.63	12001.37
Monterey	2024	2428.50	149028.64	15350.30
Monterey	2025	2495.04	150381.36	14944.25
Monterey	2026	2560.03	151797.13	14580.11
Monterey	2027	2623.56	153267.39	14227.30
Monterey	2028	2685.31	154740.26	13919.50
Monterey	2029	2743.16	156187.78	13623.84
Monterey	2030	2797.74	157625.00	13356.22
Monterey Total		18333.33	1073027.56	100001.52
Napa	2024	1101.16	44383.67	5087.65
Napa	2025	1126.20	44721.52	4850.90
Napa	2026	1148.54	45081.06	4636.08
Napa	2027	1168.09	45444.05	4433.29
Napa	2028	1185.26	45800.82	4246.88
Napa	2029	1200.36	46166.84	4074.32
Napa	2030	1212.84	46512.21	3912.23
Napa Total		8142.44	318110.17	31241.36
Nevada	2024	1419.42	30952.16	7569.96
Nevada	2025	1463.84	31384.11	7251.06
Nevada	2026	1506.77	31863.67	6941.61
Nevada	2027	1549.42	32385.02	6642.87
Nevada	2028	1592.43	32928.73	6359.95
Nevada	2029	1634.30	33479.63	6080.86
Nevada	2030	1676.10	34016.38	5813.46
Nevada Total		10842.27	227009.70	46659.77
Orange	2024	12459.69	1167583.98	98185.24
Orange	2025	12898.14	1167974.79	96882.95
Orange	2026	13286.53	1169053.76	95697.12
Orange	2027	13647.91	1170612.18	94631.26
Orange	2028	13983.20	1172763.87	93667.39
Orange	2029	14296.30	1175292.35	92771.61
Orange	2030	14583.17	1178236.44	91933.80
Orange Total		95154.94	8201517.37	663769.36
Plumas	2024	178.89	10650.64	2247.10
Plumas	2025	180.35	10787.00	2131.08
Plumas	2026	181.86	10933.38	2016.31
Plumas	2027	182.80	11082.27	1913.45
Plumas	2028	184.17	11235.24	1820.27
Plumas	2029	185.97	11384.44	1726.17
Plumas	2030	187.60	11532.21	1640.56

Plumas Total		1281.64	77605.18	13494.95
Sacramento	2024	10313.60	529175.50	50431.03
Sacramento	2025	10546.02	532335.30	49027.20
Sacramento	2026	10767.59	535911.44	47714.09
Sacramento	2027	10988.02	539752.49	46473.77
Sacramento	2028	11202.64	543903.23	45349.67
Sacramento	2029	11409.66	548154.17	44276.09
Sacramento	2030	11601.50	552395.63	43275.00
Sacramento Total		76829.03	3781627.77	326546.85
San Benito	2024	2005.83	24084.63	2312.73
San Benito	2025	2062.80	24728.36	2269.98
San Benito	2026	2115.26	25398.40	2230.24
San Benito	2027	2165.43	26067.98	2192.77
San Benito	2028	2212.95	26735.69	2164.65
San Benito	2029	2257.72	27400.48	2142.30
San Benito	2030	2299.94	28047.29	2121.76
San Benito Total		15119.93	182462.83	15434.42
San Diego	2024	15859.63	1276765.53	129448.71
San Diego	2025	16341.18	1275841.93	125289.81
San Diego	2026	16780.41	1275568.46	121352.28
San Diego	2027	17197.58	1275736.07	117700.56
San Diego	2028	17590.50	1276379.99	114337.66
San Diego	2029	17956.22	1277330.63	111188.89
San Diego	2030	18296.76	1278779.87	108159.43
San Diego Total		120022.29	8936402.48	827477.34
San Francisco	2024	1613.81	141858.62	13207.75
San Francisco	2025	1646.36	141025.01	12942.68
San Francisco	2026	1675.73	140361.39	12688.30
San Francisco	2027	1703.99	139805.32	12437.46
San Francisco	2028	1731.14	139365.33	12198.65
San Francisco	2029	1753.30	139047.78	11968.52
San Francisco	2030	1778.56	138834.34	11741.95
San Francisco Total		11902.90	980297.80	87185.32
San Joaquin	2024	9167.41	263978.37	21514.03
San Joaquin	2025	9511.97	267395.29	21048.26
San Joaquin	2026	9840.13	270918.38	20652.09
San Joaquin	2027	10157.13	274508.28	20304.27
San Joaquin	2028	10465.04	278173.26	20019.31
San Joaquin	2029	10761.88	281796.10	19776.99
San Joaquin	2030	11047.06	285348.96	19572.53
San Joaquin Total		70950.61	1922118.63	142887.49
San Luis Obispo	2024	1705.36	113482.65	15259.38
San Luis Obispo	2025	1755.26	113781.63	14765.98
San Luis Obispo	2026	1801.54	114173.32	14302.93
San Luis Obispo	2027	1846.42	114617.22	13849.20
San Luis Obispo	2028	1890.30	115118.83	13437.29
San Luis Obispo	2029	1930.66	115655.50	13038.51

San Luis Obispo	2030	1969.57	116222.59	12644.00
San Luis Obispo Total		12899.10	803051.74	97297.30
San Mateo	2024	1491.78	265625.93	25162.81
San Mateo	2025	1523.32	266937.70	25672.39
San Mateo	2026	1551.25	268325.00	26198.25
San Mateo	2027	1577.74	269618.66	26730.98
San Mateo	2028	1602.67	270859.97	27257.16
San Mateo	2029	1625.37	272062.83	27763.65
San Mateo	2030	1643.90	273213.59	28282.41
San Mateo Total		11016.03	1886643.68	187067.66
Santa Barbara	2024	2033.14	140083.74	17066.79
Santa Barbara	2025	2091.01	140528.27	16555.94
Santa Barbara	2026	2144.67	141095.23	16088.02
Santa Barbara	2027	2195.61	141765.78	15631.32
Santa Barbara	2028	2243.70	142541.74	15235.67
Santa Barbara	2029	2288.59	143345.87	14854.89
Santa Barbara	2030	2328.51	144207.11	14488.87
Santa Barbara Total		15325.22	993567.74	109921.50
Santa Clara	2024	9312.01	676942.69	52995.48
Santa Clara	2025	9590.68	680961.18	52034.73
Santa Clara	2026	9843.68	685224.41	51163.21
Santa Clara	2027	10079.88	689599.95	50363.20
Santa Clara	2028	10301.39	694099.07	49640.08
Santa Clara	2029	10508.44	698450.39	48976.71
Santa Clara	2030	10701.24	702559.99	48359.77
Santa Clara Total		70337.32	4827837.67	353533.16
Santa Cruz	2024	808.10	73848.16	10370.17
Santa Cruz	2025	819.83	74363.06	9978.03
Santa Cruz	2026	830.13	74916.64	9613.05
Santa Cruz	2027	839.12	75481.95	9262.48
Santa Cruz	2028	847.78	76055.28	8942.40
Santa Cruz	2029	855.56	76615.56	8626.41
Santa Cruz	2030	861.93	77164.21	8323.14
Santa Cruz Total		5862.46	528444.86	65115.67
Shasta	2024	3897.57	82408.43	10687.45
Shasta	2025	4011.60	82993.84	10250.50
Shasta	2026	4120.92	83652.88	9846.38
Shasta	2027	4225.75	84371.86	9465.81
Shasta	2028	4327.25	85133.48	9118.13
Shasta	2029	4423.33	85910.87	8789.05
Shasta	2030	4513.89	86687.88	8476.54
Shasta Total		29520.30	591159.24	66633.86
Sierra	2024	35.82	4570.46	657.75
Sierra	2025	35.62	4598.30	628.86
Sierra	2026	35.40	4627.71	603.75
Sierra	2027	35.98	4658.61	580.37
Sierra	2028	36.29	4689.92	558.12

Sierra	2029	36.50	4724.31	536.56
Sierra	2030	36.54	4755.70	516.75
Sierra Total		252.14	32625.01	4082.16
Siskiyou	2024	2303.57	38174.88	6110.92
Siskiyou	2025	2355.45	38409.88	5848.60
Siskiyou	2026	2404.18	38667.60	5600.16
Siskiyou	2027	2453.16	38955.45	5362.50
Siskiyou	2028	2500.60	39277.35	5143.71
Siskiyou	2029	2544.67	39587.12	4930.84
Siskiyou	2030	2586.45	39900.72	4736.20
Siskiyou Total		17148.07	272973.00	37732.93
Stanislaus	2024	6132.72	197510.76	18017.70
Stanislaus	2025	6332.89	199556.86	17437.58
Stanislaus	2026	6520.89	201712.82	16915.04
Stanislaus	2027	6702.22	203926.53	16439.50
Stanislaus	2028	6877.51	206194.34	16023.99
Stanislaus	2029	7044.11	208472.96	15650.70
Stanislaus	2030	7199.97	210734.78	15313.14
Stanislaus Total		46810.31	1428109.06	115797.66
Sutter	2024	1986.48	43946.76	4240.95
Sutter	2025	2061.21	44677.14	4110.68
Sutter	2026	2134.07	45448.72	3995.72
Sutter	2027	2206.33	46243.21	3893.00
Sutter	2028	2277.78	47057.40	3805.33
Sutter	2029	2347.68	47869.04	3723.08
Sutter	2030	2416.63	48694.18	3652.91
Sutter Total		15430.18	323936.43	27421.67
Tehama	2024	2675.73	42009.00	4857.44
Tehama	2025	2755.86	42395.75	4645.26
Tehama	2026	2830.61	42808.97	4451.79
Tehama	2027	2902.01	43249.46	4278.55
Tehama	2028	2969.28	43699.06	4125.12
Tehama	2029	3032.48	44160.30	3977.98
Tehama	2030	3091.63	44619.60	3846.48
Tehama Total		20257.59	302942.15	30182.62
Trinity	2024	555.53	14745.11	2235.93
Trinity	2025	573.69	14779.86	2135.73
Trinity	2026	591.49	14825.71	2039.25
Trinity	2027	609.08	14881.73	1951.19
Trinity	2028	626.27	14949.12	1870.66
Trinity	2029	642.86	15018.13	1792.85
Trinity	2030	658.56	15098.23	1721.81
Trinity Total		4257.48	104297.88	13747.41
Tulare	2024	5552.13	168329.13	15249.94
Tulare	2025	5711.56	170131.62	14690.43
Tulare	2026	5858.77	171938.03	14203.44
Tulare	2027	5998.30	173735.03	13770.23

Tulare	2028	6131.70	175498.75	13399.53
Tulare	2029	6254.61	177208.43	13067.45
Tulare	2030	6366.66	178865.44	12777.03
Tulare Total		41873.73	1215706.43	97158.04
Tuolumne	2024	245.00	18300.49	4306.04
Tuolumne	2025	247.49	18454.93	4058.78
Tuolumne	2026	249.38	18637.94	3821.62
Tuolumne	2027	251.03	18849.19	3598.61
Tuolumne	2028	252.64	19067.83	3390.20
Tuolumne	2029	253.34	19268.90	3185.61
Tuolumne	2030	252.67	19479.02	2993.48
Tuolumne Total		1751.56	132058.32	25354.33
Ventura	2024	3208.66	257914.42	24456.63
Ventura	2025	3298.03	257533.42	23666.97
Ventura	2026	3381.10	257261.12	22928.96
Ventura	2027	3459.66	257029.73	22247.62
Ventura	2028	3534.70	256915.94	21623.46
Ventura	2029	3603.36	256798.35	21037.16
Ventura	2030	3664.86	256706.27	20472.68
Ventura Total		24150.38	1800159.26	156433.47
Yolo	2024	2447.16	75385.67	8726.95
Yolo	2025	2525.76	75470.60	8447.78
Yolo	2026	2600.49	75617.26	8182.23
Yolo	2027	2672.45	75794.69	7933.96
Yolo	2028	2741.90	76012.20	7705.02
Yolo	2029	2806.84	76235.11	7487.67
Yolo	2030	2866.90	76501.14	7281.95
Yolo Total		18661.49	531016.67	55765.56
Yuba	2024	320.37	22939.49	2623.48
Yuba	2025	327.70	23305.29	2498.00
Yuba	2026	334.60	23692.55	2384.68
Yuba	2027	341.38	24088.83	2281.23
Yuba	2028	347.42	24494.04	2189.76
Yuba	2029	353.38	24916.07	2106.04
Yuba	2030	359.72	25339.73	2030.17
Yuba Total		2384.56	168776.01	16113.36
Kern-Mojave Desert	2024	4224.94	57003.02	7180.37
Kern-Mojave Desert	2025	4347.58	56870.06	6901.09
Kern-Mojave Desert	2026	4464.46	56801.82	6648.44
Kern-Mojave Desert	2027	4578.86	56783.83	6411.29
Kern-Mojave Desert	2028	4691.00	56829.61	6198.14
Kern-Mojave Desert	2029	4800.16	56904.05	6004.01
Kern-Mojave Desert	2030	4907.66	57024.98	5821.95
Kern-Mojave Desert Total		32014.66	398217.37	45165.28
Los Angeles-Mojave Desert	2024	1441.85	81242.44	6440.89
Los Angeles-Mojave Desert	2025	1481.65	80830.16	6187.24
Los Angeles-Mojave Desert	2026	1518.53	80450.29	5952.12

Los Angeles-Mc	2027	1553.80	80052.59	5731.02
Los Angeles-Mc	2028	1587.64	79648.11	5528.76
Los Angeles-Mc	2029	1618.87	79189.57	5340.66
Los Angeles-Mc	2030	1647.89	78709.33	5166.04
Los Angeles-Mojave Desert Total		10850.23	560122.49	40346.74
Riverside-Mojave	2024	2065.28	16690.62	1727.43
Riverside-Mojave	2025	2129.05	16703.50	1662.92
Riverside-Mojave	2026	2190.39	16723.90	1605.25
Riverside-Mojave	2027	2250.85	16752.13	1551.13
Riverside-Mojave	2028	2310.14	16783.81	1506.14
Riverside-Mojave	2029	2368.04	16815.05	1463.44
Riverside-Mojave	2030	2425.07	16855.19	1426.15
Riverside-Mojave Desert MDAQMD		15738.82	117324.20	10942.45
Riverside-Mojave	2024	2146.59	16687.63	1608.87
Riverside-Mojave	2025	2213.89	16724.61	1568.89
Riverside-Mojave	2026	2278.19	16769.03	1532.11
Riverside-Mojave	2027	2341.35	16818.69	1497.90
Riverside-Mojave	2028	2403.26	16873.92	1467.64
Riverside-Mojave	2029	2463.55	16930.09	1438.39
Riverside-Mojave	2030	2523.02	16986.21	1412.01
Riverside-Mojave Desert SCAQMD T		16369.85	117790.17	10525.82
San Bernardino	2024	13014.22	332390.77	31332.82
San Bernardino	2025	13401.95	333023.71	30409.60
San Bernardino	2026	13769.11	333831.22	29568.99
San Bernardino	2027	14128.46	334754.06	28797.88
San Bernardino	2028	14479.33	335801.41	28121.57
San Bernardino	2029	14819.38	336837.49	27493.13
San Bernardino	2030	15152.24	337944.35	26908.03
San Bernardino-Mojave Desert Total		98764.69	2344583.01	202632.02
Los Angeles-Southern	2024	58233.86	3584460.27	313288.00
Los Angeles-Southern	2025	60301.75	3561569.89	309134.76
Los Angeles-Southern	2026	62142.06	3540297.72	305367.32
Los Angeles-Southern	2027	63822.79	3519562.41	302019.42
Los Angeles-Southern	2028	65375.98	3500281.94	299078.64
Los Angeles-Southern	2029	66801.32	3481174.84	296254.02
Los Angeles-Southern	2030	68121.11	3462816.49	293559.58
Los Angeles-South Coast Total		444798.87	24650163.55	2118701.74
Placer-Lake Tahoe	2024	60.35	4115.82	826.97
Placer-Lake Tahoe	2025	61.84	4229.16	787.21
Placer-Lake Tahoe	2026	63.33	4353.25	750.41
Placer-Lake Tahoe	2027	64.85	4486.46	715.66
Placer-Lake Tahoe	2028	66.37	4624.75	684.63
Placer-Lake Tahoe	2029	67.68	4768.51	655.36
Placer-Lake Tahoe	2030	69.06	4909.55	624.54
Placer-Lake Tahoe Total		453.50	31487.48	5044.79
Placer-Mountain	2024	1495.84	31689.51	3630.95
Placer-Mountain	2025	1547.85	31797.23	3505.25

Placer-Mountain	2026	1599.05	31932.88	3387.72
Placer-Mountain	2027	1649.97	32084.54	3279.89
Placer-Mountain	2028	1701.15	32255.01	3183.10
Placer-Mountain	2029	1752.14	32429.53	3090.78
Placer-Mountain	2030	1803.37	32613.55	3000.61
Placer-Mountain Counties Total		11549.37	224802.26	23078.31
Riverside-South	2024	15587.68	503446.78	40774.76
Riverside-South	2025	16173.34	508545.75	40021.46
Riverside-South	2026	16697.13	513720.59	39326.30
Riverside-South	2027	17176.38	518817.86	38711.97
Riverside-South	2028	17623.39	523902.33	38214.53
Riverside-South	2029	18035.60	528752.02	37770.21
Riverside-South	2030	18418.44	533405.70	37368.76
Riverside-South Coast Total		119711.96	3630591.04	272187.99
Riverside-Salton	2024	7320.82	139524.74	12720.28
Riverside-Salton	2025	7571.70	140288.53	12584.85
Riverside-Salton	2026	7808.78	141129.94	12467.53
Riverside-Salton	2027	8039.65	141989.48	12366.47
Riverside-Salton	2028	8263.65	142907.86	12298.87
Riverside-Salton	2029	8479.65	143845.63	12244.26
Riverside-Salton	2030	8689.60	144814.31	12206.72
Riverside-Salton Sea Total		56173.86	994500.48	86888.97
San Bernardino	2024	16755.62	492152.47	40846.17
San Bernardino	2025	17367.59	494904.30	40029.09
San Bernardino	2026	17922.43	497826.27	39281.85
San Bernardino	2027	18437.28	500778.72	38614.10
San Bernardino	2028	18925.92	503853.80	38048.23
San Bernardino	2029	19383.71	506810.67	37534.54
San Bernardino	2030	19813.68	509674.32	37068.39
San Bernardino-South Coast Total		128606.23	3506000.56	271422.37
Solano-San Francisco	2024	2366.33	109256.44	9298.96
Solano-San Francisco	2025	2436.51	108671.38	8929.97
Solano-San Francisco	2026	2500.12	108204.52	8593.67
Solano-San Francisco	2027	2558.89	107803.32	8281.12
Solano-San Francisco	2028	2613.34	107478.71	7994.90
Solano-San Francisco	2029	2663.50	107183.16	7727.59
Solano-San Francisco	2030	2709.98	106911.87	7479.83
Solano-San Francisco Total		17848.67	755509.41	58306.05
Sonoma-North Coast	2024	507.39	26891.87	3789.27
Sonoma-North Coast	2025	520.06	27133.81	3541.67
Sonoma-North Coast	2026	532.08	27387.63	3318.69
Sonoma-North Coast	2027	543.44	27654.97	3112.05
Sonoma-North Coast	2028	554.76	27919.99	2927.25
Sonoma-North Coast	2029	564.93	28180.35	2755.99
Sonoma-North Coast	2030	574.25	28438.21	2599.00
Sonoma-North Coast Total		3796.92	193606.84	22043.92
Sonoma-San Francisco	2024	2043.33	126111.44	14303.72

Sonoma-San Francisco	2025	2098.30	127478.40	13659.06
Sonoma-San Francisco	2026	2146.33	128881.49	13054.55
Sonoma-San Francisco	2027	2192.87	130261.88	12487.80
Sonoma-San Francisco	2028	2237.91	131600.91	11971.76
Sonoma-San Francisco	2029	2278.66	132858.68	11483.91
Sonoma-San Francisco	2030	2314.59	134039.25	11024.49
Sonoma-San Francisco Total		15311.98	911232.06	87985.29
Kern-San Joaquin	2024	24643.54	301520.78	26917.50
Kern-San Joaquin	2025	25591.73	304672.58	26441.95
Kern-San Joaquin	2026	26493.79	307939.38	26044.29
Kern-San Joaquin	2027	27369.64	311265.87	25705.83
Kern-San Joaquin	2028	28219.23	314623.09	25447.59
Kern-San Joaquin	2029	29042.02	317903.32	25233.24
Kern-San Joaquin	2030	29840.38	321176.57	25065.71
Kern-San Joaquin Total		191200.33	2179101.59	180856.11
Solano-Sacramento	2024	2474.00	58603.50	5550.91
Solano-Sacramento	2025	2543.25	58800.02	5373.29
Solano-Sacramento	2026	2607.63	59035.13	5206.31
Solano-Sacramento	2027	2668.68	59276.61	5054.83
Solano-Sacramento	2028	2726.17	59557.95	4917.45
Solano-Sacramento	2029	2779.57	59851.45	4788.83
Solano-Sacramento	2030	2829.57	60138.45	4665.09
Solano-Sacramento Total		18628.87	415263.11	35556.70
AllCats		2473692.73	98371368.52	8615916.25

LDT2	LHDT1	LHDT2	MCY	MDV
254135.84	28107.63	6602.10	26267.29	138442.13
258765.58	28361.88	6751.69	26371.16	141335.61
263452.84	28684.53	6900.39	26458.14	144356.18
268097.29	29012.36	7046.62	26565.54	147461.42
272764.57	29371.63	7190.70	26688.92	150586.17
277268.94	29734.42	7337.66	26844.19	153752.75
281647.69	30130.63	7482.44	26959.53	156947.20
1876132.75	203403.09	49311.58	186154.77	1032881.46
1341.08	257.44	66.22	161.03	954.53
1365.16	250.90	65.30	160.87	953.46
1388.85	245.77	64.34	160.69	953.35
1412.31	240.93	63.37	159.63	954.22
1435.76	236.83	62.45	159.55	955.45
1457.08	233.07	61.57	158.68	957.32
1478.70	229.75	60.69	157.71	958.90
9878.93	1694.69	443.94	1118.16	6687.24
6258.67	2418.85	517.18	1220.15	5243.51
6297.25	2296.96	497.17	1194.30	5134.45
6330.55	2181.02	476.77	1166.46	5032.33
6366.53	2076.96	457.20	1141.91	4935.09
6399.79	1975.70	438.28	1115.36	4848.97
6430.21	1880.36	419.89	1092.61	4765.36
6458.13	1784.48	400.88	1068.86	4692.37
44541.12	14614.34	3207.38	7999.66	34652.09
37364.13	10228.82	2121.59	5541.96	30608.29
37926.28	9791.32	2075.96	5474.75	30193.62
38503.42	9370.54	2026.63	5411.25	29830.04
39086.86	8973.76	1979.03	5352.70	29511.96
39689.07	8602.09	1933.30	5290.67	29230.90
40289.01	8251.74	1887.09	5231.89	28998.68
40883.52	7917.41	1844.54	5169.92	28813.58
273742.29	63135.67	13868.14	37473.15	207187.07
7995.89	3253.48	728.33	1693.68	7082.17
8060.15	3085.83	697.89	1660.40	6928.12
8120.67	2928.79	667.36	1627.16	6784.46
8174.58	2774.95	638.23	1589.70	6652.82
8219.14	2635.57	609.27	1555.97	6523.46
8256.88	2495.32	581.53	1517.55	6405.92
8290.31	2364.88	554.25	1483.14	6291.58
57117.62	19538.81	4476.87	11127.61	46668.52
11434.36	2673.46	653.85	1333.41	10308.10
11666.87	2596.99	644.29	1332.93	10174.01
11903.82	2523.44	634.09	1334.47	10051.73

12142.17	2454.17	623.99	1334.43	9940.20
12378.70	2388.58	614.04	1336.60	9837.20
12612.29	2323.22	604.42	1338.17	9740.69
12838.58	2263.27	594.84	1338.90	9657.73
84976.78	17223.13	4369.52	9348.91	69709.66
158841.09	21073.51	4774.13	18015.43	104459.72
161208.83	20985.56	4827.41	17964.06	104707.91
163592.92	20919.85	4877.44	17905.19	105075.35
165949.00	20871.01	4927.70	17857.30	105522.46
168322.72	20856.60	4977.79	17831.25	106019.86
170604.74	20855.08	5029.38	17825.16	106592.10
172817.02	20885.93	5081.55	17810.29	107245.67
1161336.32	146447.54	34495.41	125208.69	739623.09
5518.00	1606.26	310.63	825.36	4460.79
5581.94	1539.56	301.71	813.89	4413.79
5641.57	1472.59	292.29	804.37	4369.50
5701.51	1407.25	283.01	795.76	4329.88
5755.57	1345.88	274.25	787.79	4289.57
5807.44	1290.90	264.83	780.02	4253.67
5855.33	1235.15	256.80	767.33	4219.14
39861.36	9897.59	1983.52	5574.52	30336.33
34308.96	7912.93	1813.30	4963.31	23086.97
35098.63	7694.46	1771.03	4924.38	23205.64
35861.28	7472.43	1725.70	4877.24	23331.33
36583.24	7267.97	1681.33	4820.31	23468.09
37276.61	7076.69	1638.01	4772.57	23609.46
37932.75	6896.30	1596.05	4740.53	23753.11
38564.57	6727.77	1554.75	4699.15	23905.26
255626.04	51048.57	11780.17	33797.49	164359.84
147507.26	23436.74	6144.43	15858.59	134025.28
151562.25	23069.75	6077.14	15807.74	132842.58
155669.69	22729.17	6006.48	15760.47	131847.66
159864.67	22427.32	5937.79	15697.50	130960.69
164101.43	22148.69	5874.00	15663.49	130203.33
168284.04	21891.77	5812.33	15614.10	129560.63
172347.56	21674.70	5755.37	15567.73	129081.05
1119336.89	157378.13	41607.53	109969.63	918521.22
10451.37	2887.25	697.35	1390.52	9322.71
10639.47	2776.27	681.10	1379.87	9175.95
10832.03	2672.65	664.57	1368.25	9043.82
11025.52	2572.76	648.67	1358.17	8925.07
11219.53	2479.32	633.10	1350.37	8810.44
11408.25	2387.34	617.60	1345.49	8710.15
11592.77	2302.89	602.88	1340.84	8626.96
77168.95	18078.48	4545.27	9533.49	62615.11
28945.63	8671.53	1935.70	4316.59	21324.87
29349.48	8294.05	1876.06	4266.86	21232.27

29733.81	7932.31	1813.33	4219.59	21140.22
30091.51	7586.81	1751.48	4159.69	21058.34
30411.91	7254.98	1689.80	4106.24	20973.65
30702.01	6938.85	1629.07	4055.24	20895.07
30967.36	6638.78	1568.88	4005.98	20813.57
210201.72	53317.31	12264.32	29130.19	147437.98
58820.56	9296.30	2310.96	5992.46	48208.50
60195.73	9192.97	2314.10	6036.29	47998.99
61598.54	9109.95	2317.07	6077.42	47862.70
63051.15	9045.98	2319.63	6115.91	47779.66
64524.33	8998.64	2323.96	6156.06	47733.96
65958.73	8948.50	2329.32	6195.30	47718.56
67357.75	8910.42	2334.87	6223.24	47742.54
441506.79	63502.75	16249.90	42796.67	335044.90
15740.09	3314.53	761.65	1979.57	11253.42
16003.65	3223.85	751.39	1970.83	11224.43
16266.27	3139.73	740.53	1962.73	11213.05
16524.46	3061.82	729.70	1953.41	11211.85
16775.27	2986.86	719.04	1946.90	11215.09
17011.83	2916.43	708.71	1938.98	11216.21
17240.77	2850.80	698.35	1930.83	11224.51
115562.35	21494.01	5109.37	13683.24	78558.56
28668.89	5550.15	1216.32	3376.29	28722.10
29591.96	5443.82	1211.48	3374.24	28398.82
30522.24	5344.37	1205.51	3369.69	28117.64
31459.95	5246.62	1200.05	3358.71	27848.09
32399.15	5159.67	1195.39	3352.07	27608.62
33321.71	5078.84	1189.61	3347.87	27379.15
34209.67	5008.41	1183.19	3337.32	27192.13
220173.57	36831.88	8401.55	23516.19	195266.55
13711.48	4293.00	905.26	2384.38	11400.84
13911.67	4103.71	870.55	2360.75	11262.70
14110.63	3922.18	835.58	2324.52	11153.14
14308.21	3752.70	801.91	2283.19	11054.34
14495.25	3594.35	769.97	2253.76	10963.47
14674.72	3440.41	739.80	2223.61	10884.70
14852.51	3289.01	710.20	2185.02	10816.05
100064.46	26395.36	5633.26	16015.23	77535.25
10612.48	3238.96	680.04	1376.22	8649.73
10795.01	3107.25	661.36	1369.91	8590.97
10971.48	2980.85	642.09	1360.24	8546.60
11143.74	2860.55	622.85	1353.14	8503.88
11304.52	2740.17	603.58	1344.59	8462.24
11453.43	2620.13	584.72	1337.83	8417.87
11592.74	2509.00	566.49	1328.78	8367.57
77873.41	20056.92	4361.12	9470.72	59538.86
28159.97	6108.53	1532.72	3622.21	26898.03

28580.15	5900.67	1499.35	3573.98	26355.44
29020.92	5700.52	1464.61	3526.72	25854.49
29484.06	5513.40	1431.18	3478.69	25381.38
29963.85	5336.48	1399.25	3426.05	24946.76
30443.85	5177.73	1367.47	3377.45	24546.47
30908.91	5029.54	1337.68	3333.60	24196.67
206561.70	38766.86	10032.27	24338.69	178179.24
61339.81	6737.02	1473.25	6387.67	31617.96
62129.77	6745.40	1504.73	6364.17	32227.49
62862.99	6769.58	1534.50	6345.03	32836.49
63514.15	6795.51	1564.49	6320.42	33438.08
64107.12	6825.98	1593.29	6307.09	34011.08
64610.33	6858.48	1621.63	6306.61	34563.32
65048.74	6887.93	1648.66	6288.49	35101.14
443612.91	47619.90	10940.54	44319.49	233795.56
3117.92	1188.22	263.61	598.47	2527.54
3105.60	1128.01	252.29	582.99	2458.72
3092.29	1066.55	240.82	567.28	2393.06
3077.72	1009.88	229.96	554.48	2334.05
3060.78	956.25	219.91	539.32	2275.76
3045.23	904.74	209.22	526.36	2225.27
3028.50	852.68	198.99	511.12	2171.33
21528.03	7106.33	1614.79	3880.01	16385.72
28038.75	7584.77	1482.87	3826.61	20481.78
28605.06	7306.56	1443.06	3808.02	20466.05
29159.40	7038.49	1402.66	3779.20	20460.71
29693.39	6785.79	1362.89	3755.61	20478.68
30197.61	6541.69	1323.88	3730.29	20498.45
30668.98	6313.12	1286.12	3704.45	20512.57
31120.98	6074.71	1249.49	3674.74	20534.59
207484.16	47645.13	9550.98	26278.91	143432.83
35838.04	7694.88	1865.93	4134.69	37681.65
36361.48	7421.40	1824.34	4088.85	36694.23
36938.51	7162.67	1781.83	4046.79	35800.03
37583.11	6919.79	1741.24	3999.76	34976.45
38281.12	6703.78	1701.75	3961.89	34231.20
39005.78	6493.26	1662.65	3927.93	33561.15
39734.50	6302.69	1627.23	3891.86	32987.55
263742.54	48698.47	12204.97	28051.78	245932.26
3999.88	1333.64	286.17	467.81	3340.02
4052.60	1273.47	278.27	466.61	3305.57
4105.24	1212.67	270.19	465.44	3269.72
4156.79	1160.55	261.78	460.18	3239.07
4205.23	1104.58	254.02	455.84	3211.77
4251.21	1054.03	246.42	454.52	3178.92
4294.10	1006.37	237.77	451.90	3151.16
29065.06	8145.30	1834.62	3222.30	22696.23

7940.92	1647.53	387.50	982.88	5694.71
8075.37	1602.07	381.32	978.33	5675.33
8207.71	1561.36	374.75	974.40	5659.90
8336.70	1524.26	368.63	969.86	5653.53
8463.52	1489.31	362.66	966.80	5649.15
8581.65	1457.16	356.47	960.77	5649.05
8697.75	1424.37	350.77	955.15	5652.23
58303.62	10706.07	2582.10	6788.19	39633.91
71638.47	12263.73	2980.56	7080.00	59790.96
73237.84	11990.40	2928.45	7099.39	59251.37
74822.03	11717.60	2875.39	7101.49	58767.95
76381.26	11454.66	2825.54	7114.36	58329.51
77916.78	11211.48	2777.69	7130.08	57920.30
79394.47	10973.27	2733.31	7150.68	57556.41
80830.17	10752.26	2690.19	7151.46	57256.27
534221.01	80363.40	19811.12	49827.45	408872.77
21589.81	4586.80	1114.52	2609.80	15782.23
21623.73	4424.62	1088.51	2574.48	15509.97
21654.86	4271.60	1061.56	2544.32	15267.36
21680.70	4128.49	1035.90	2505.38	15043.57
21705.92	3990.30	1011.15	2478.32	14829.66
21722.22	3862.73	988.53	2444.06	14630.11
21730.18	3738.45	966.88	2410.57	14454.06
151707.42	29003.00	7267.04	17566.93	105516.97
26591.67	6203.52	1261.47	4167.46	16688.90
26967.86	5967.12	1222.64	4114.21	16687.01
27312.16	5737.35	1182.67	4064.97	16689.15
27617.55	5518.91	1143.02	4005.97	16703.01
27883.48	5307.00	1105.23	3939.44	16719.75
28110.07	5116.97	1069.11	3878.04	16743.05
28308.42	4918.86	1032.10	3821.56	16774.91
192791.22	38769.74	8016.24	27991.64	117005.78
532634.59	63084.38	15934.56	50239.00	335229.67
541165.18	63997.04	16388.63	51011.43	337932.03
549926.69	64924.06	16838.32	51778.71	340754.56
558477.56	65876.09	17275.12	52507.37	343688.41
566838.04	66869.36	17711.10	53242.82	346605.38
574871.13	67862.76	18142.18	53993.07	349545.29
582673.21	68858.49	18565.06	54660.25	352603.52
3906586.39	461472.18	120854.96	367432.64	2406358.86
7499.62	2201.75	426.06	981.43	5794.55
7584.35	2100.25	413.27	971.02	5738.13
7663.16	2005.63	399.99	963.99	5687.77
7737.81	1919.95	386.82	955.73	5646.48
7806.71	1838.24	374.09	945.75	5601.16
7866.69	1754.66	362.28	937.48	5558.49
7921.28	1671.31	350.21	928.38	5517.42

54079.61	13491.80	2712.71	6683.77	39544.01
236128.71	36048.63	8355.50	26567.60	157087.83
241208.21	35294.44	8311.53	26621.96	157599.88
246215.67	34586.08	8258.98	26668.74	158398.88
251095.41	33927.68	8209.58	26693.56	159328.81
255901.09	33336.99	8158.99	26721.98	160355.89
260517.20	32758.68	8115.33	26745.56	161489.87
265002.46	32224.06	8076.93	26745.14	162750.12
1756068.74	238176.57	57486.85	186764.53	1117011.28
10544.09	2717.47	711.08	1846.92	11056.32
11016.88	2638.43	695.96	1827.78	11012.51
11495.05	2557.83	680.74	1814.96	10977.80
11975.56	2478.00	665.57	1800.44	10945.47
12460.51	2408.60	650.72	1786.05	10919.28
12941.32	2342.88	637.04	1772.77	10897.34
13415.19	2282.61	622.11	1764.98	10882.12
83848.59	17425.83	4663.22	12613.90	76690.86
565620.11	72241.82	17704.59	70199.57	345449.52
567825.75	71927.55	17960.39	69656.63	345022.76
570575.44	71733.98	18206.20	69177.97	344958.40
573458.03	71624.01	18452.82	68699.47	345162.05
576480.83	71623.88	18704.23	68329.40	345540.53
579523.91	71698.07	18954.22	68037.33	346143.22
582628.12	71801.29	19204.84	67688.92	347006.16
4016112.20	502650.60	129187.29	481789.28	2419282.63
64919.68	6465.80	1570.04	9967.57	27145.93
66514.75	6615.29	1622.13	9822.32	28643.59
68034.55	6767.34	1673.19	9689.26	30122.44
69461.41	6922.15	1722.82	9572.40	31581.38
70811.53	7083.74	1771.76	9445.68	32988.66
72054.32	7230.90	1819.98	9332.93	34364.56
73205.25	7374.04	1867.23	9221.25	35687.60
485001.50	48459.25	12047.15	67051.40	220534.16
104468.99	18320.24	4275.20	12062.21	95989.31
107861.58	17961.73	4244.20	12009.70	95319.92
111351.12	17632.73	4208.48	11953.20	94797.29
114957.40	17322.74	4176.40	11897.91	94394.27
118638.98	17053.72	4148.73	11864.95	94132.89
122311.12	16813.27	4121.45	11820.27	93988.55
125910.75	16593.91	4091.11	11782.19	93993.82
805499.93	121698.33	29265.56	83390.43	662616.05
61430.36	13655.98	3582.07	8773.20	46098.92
62504.64	13182.60	3491.30	8643.69	45856.29
63537.21	12719.08	3398.45	8509.25	45624.03
64502.84	12268.20	3306.32	8358.68	45398.10
65415.80	11842.35	3217.36	8232.52	45178.65
66256.58	11431.86	3128.96	8116.63	44959.91

67052.93	11052.77	3044.38	8010.33	44768.82
450700.35	86152.83	23168.82	58644.31	317884.71
153000.52	16163.87	3477.77	13263.89	87578.44
163982.46	17168.11	3769.51	13994.78	93983.05
174823.54	18168.80	4057.26	14692.86	100319.87
185411.45	19160.89	4340.75	15361.78	106512.11
195716.97	20144.94	4619.73	16024.84	112477.33
205594.24	21085.15	4892.83	16656.23	118237.76
215009.02	22021.06	5159.22	17265.42	123796.57
1293538.20	133912.83	30317.06	107259.80	742905.13
73989.36	11762.68	2828.35	9159.25	53663.52
75692.21	11480.82	2782.24	9094.52	53569.86
77380.61	11221.60	2734.43	9008.29	53542.54
79021.62	10973.65	2688.00	8916.56	53556.43
80627.69	10753.41	2644.31	8839.83	53611.92
82172.66	10534.76	2604.60	8770.45	53701.14
83675.27	10332.78	2565.39	8697.06	53858.86
552559.42	77059.71	18847.32	62485.96	375504.27
290315.03	29492.71	7188.69	28171.51	161972.58
296643.64	30005.97	7400.35	28484.89	165770.50
302949.94	30580.71	7605.29	28797.04	169652.48
309128.68	31167.96	7810.22	29075.80	173581.44
315270.22	31804.10	8014.95	29377.66	177445.27
321175.41	32448.26	8215.09	29669.57	181309.95
326842.90	33096.83	8417.69	29945.67	185133.01
2162325.83	218596.54	54652.28	203522.14	1214865.22
38635.58	6305.86	1327.97	5836.59	24948.46
39168.17	6111.53	1304.43	5723.18	24900.47
39680.94	5929.53	1281.36	5617.30	24879.68
40161.50	5755.23	1258.89	5518.42	24873.42
40606.67	5591.04	1237.38	5417.90	24877.56
41011.02	5434.35	1215.38	5326.95	24892.99
41401.82	5286.68	1195.83	5225.14	24928.43
280665.72	40414.21	8821.24	38665.48	174301.00
41308.70	11564.28	2552.68	6817.81	33603.73
41918.72	11057.26	2495.38	6725.14	33152.15
42531.20	10575.71	2434.93	6629.79	32759.77
43141.47	10124.55	2374.26	6537.24	32406.35
43752.93	9698.18	2316.93	6444.46	32088.15
44343.49	9295.74	2259.74	6355.47	31808.61
44914.26	8901.67	2203.00	6262.62	31572.68
301910.78	71217.40	16636.93	45772.53	227391.43
2489.66	582.73	126.40	309.34	1740.69
2529.83	558.25	124.07	308.13	1731.80
2569.30	540.16	121.78	306.84	1731.22
2607.66	522.45	119.52	305.42	1732.44
2645.51	506.91	117.01	304.07	1733.81

2681.56	492.22	114.94	302.87	1737.46
2715.76	471.90	111.72	301.37	1742.70
18239.28	3674.62	835.45	2138.05	12150.12
21289.06	5768.19	1251.98	2703.64	15787.31
21633.53	5527.41	1220.45	2692.55	15714.81
21974.62	5301.16	1187.21	2674.96	15663.41
22306.75	5096.05	1155.33	2652.41	15633.64
22628.61	4900.34	1121.96	2635.58	15588.76
22934.88	4716.04	1089.55	2618.60	15563.56
23226.18	4527.23	1061.06	2600.70	15541.32
155993.62	35836.42	8087.53	18578.44	109492.82
81342.78	18001.28	4721.40	10413.35	81133.36
83002.46	17424.08	4621.93	10272.42	79585.56
84716.90	16866.37	4517.26	10137.93	78167.84
86508.71	16343.22	4416.44	9999.42	76848.49
88359.71	15858.66	4317.27	9873.03	75633.36
90208.02	15395.10	4220.38	9744.65	74535.48
92006.59	14957.57	4127.14	9621.60	73568.99
606145.16	114846.28	30941.82	70062.40	539473.09
19045.23	4994.37	1163.60	2445.32	18557.28
19604.95	4833.13	1144.03	2446.83	18342.27
20176.27	4676.57	1123.33	2449.54	18153.85
20755.00	4527.80	1103.40	2450.66	17978.64
21341.64	4386.33	1083.06	2455.88	17832.77
21926.11	4247.80	1063.85	2450.55	17704.25
22503.26	4125.24	1045.02	2453.50	17597.38
145352.46	31791.24	7726.28	17152.28	126166.44
19310.34	5911.70	1422.56	2789.37	16916.27
19615.24	5661.76	1387.13	2761.14	16640.91
19925.02	5418.77	1349.57	2735.02	16387.19
20237.71	5184.30	1312.92	2705.91	16160.06
20550.22	4967.03	1277.27	2679.49	15944.98
20857.23	4762.62	1241.31	2652.49	15756.58
21156.40	4563.59	1205.88	2620.12	15589.88
141652.16	36469.78	9196.63	18943.54	113395.87
7872.15	1975.38	400.40	1058.41	5784.49
7988.65	1902.40	392.68	1052.66	5753.36
8106.19	1833.40	384.68	1045.68	5729.50
8222.44	1770.31	376.94	1038.48	5715.15
8335.34	1711.84	369.95	1030.40	5700.80
8445.01	1648.88	363.31	1022.57	5690.94
8550.15	1590.63	356.77	1016.82	5686.85
57519.93	12432.84	2644.73	7265.02	40061.10
70105.12	15162.40	3823.48	8231.59	78723.76
71638.75	14686.58	3735.89	8155.42	76847.98
73224.37	14222.62	3646.21	8093.56	75109.72
74882.77	13788.64	3560.63	8010.33	73460.80

76594.14	13392.81	3478.59	7939.73	71931.34
78293.90	13014.70	3399.77	7863.53	70498.38
79949.61	12657.24	3322.95	7797.89	69207.81
524688.67	96924.99	24967.51	56092.05	515779.80
12681.97	4317.43	885.07	2303.04	9952.83
12721.05	4120.94	853.34	2258.69	9745.77
12757.57	3927.09	820.65	2202.29	9558.51
12786.21	3740.08	788.83	2152.02	9391.10
12807.35	3562.53	757.93	2104.28	9220.21
12823.48	3382.56	728.40	2055.64	9050.77
12833.11	3214.23	699.26	2004.23	8907.84
89410.75	26264.85	5533.48	15080.19	65827.02
110472.21	17264.17	4709.04	14736.58	81234.01
110802.48	16994.28	4693.82	14577.91	79910.12
111243.27	16745.17	4675.42	14428.14	78722.46
111722.92	16518.29	4658.18	14271.23	77643.04
112221.14	16312.98	4642.13	14148.99	76666.20
112718.96	16136.48	4626.59	14033.01	75768.68
113219.59	15983.08	4612.64	13921.52	75007.98
782400.56	115954.46	32617.82	100117.37	544952.49
35843.46	8122.88	1645.15	5099.50	29363.26
36699.00	7876.92	1624.99	5069.91	29214.30
37536.43	7632.21	1604.38	5038.56	29090.24
38352.75	7401.03	1583.51	4998.26	28980.00
39156.86	7176.28	1562.81	4969.60	28878.53
39927.61	6964.11	1541.67	4935.02	28787.69
40664.37	6747.77	1520.79	4910.23	28709.91
268180.48	51921.20	11083.30	35021.09	203023.92
9670.98	2810.98	619.00	1778.81	9491.31
9829.60	2683.53	602.57	1751.87	9281.36
9998.37	2559.01	586.13	1727.59	9093.98
10178.15	2440.91	570.42	1703.20	8924.97
10368.37	2328.78	554.38	1678.74	8771.41
10564.86	2226.47	540.49	1652.30	8639.44
10765.00	2128.07	525.47	1631.53	8529.53
71375.33	17177.76	3998.46	11924.05	62732.00
28214.04	6341.23	1698.08	4905.01	22573.90
28763.04	6101.57	1657.47	4792.11	22418.25
29324.79	5871.86	1616.59	4686.95	22293.12
29903.54	5660.44	1577.55	4580.16	22185.31
30490.44	5458.64	1539.58	4478.05	22099.55
31067.05	5283.12	1501.73	4378.28	22034.50
31623.58	5120.52	1466.54	4281.90	21994.45
209386.49	39837.40	11057.53	32102.46	155599.09
25059.66	4930.69	1371.20	3991.97	21362.74
25005.26	4781.17	1351.48	3927.70	20738.18
25005.54	4647.31	1331.30	3862.63	20176.13

25055.55	4523.64	1311.11	3798.31	19666.26
25150.05	4411.34	1292.70	3735.28	19206.32
25274.30	4305.77	1275.99	3685.67	18791.26
25410.89	4208.84	1259.50	3630.34	18435.01
175961.24	31808.76	9193.30	26631.89	138375.90
7381.28	1480.05	387.09	777.25	6126.71
7520.65	1445.57	382.49	780.35	6063.34
7659.07	1412.10	377.80	782.37	6005.80
7806.04	1382.51	373.07	784.09	5961.19
7954.22	1354.99	368.63	787.04	5926.01
8099.85	1326.96	364.71	790.35	5896.55
8242.52	1300.54	360.62	793.14	5873.66
54663.63	9702.73	2614.41	5494.60	41853.26
7575.73	1130.82	282.42	847.43	5195.84
7732.88	1120.93	283.72	848.65	5217.77
7892.56	1112.75	284.81	850.76	5245.86
8051.22	1106.09	285.89	852.42	5277.49
8208.60	1101.11	287.15	854.51	5311.13
8361.08	1097.12	288.47	857.05	5347.04
8508.20	1093.98	289.80	858.85	5386.07
56330.27	7762.79	2002.26	5969.68	36981.21
139999.40	24168.60	6468.12	18161.87	108262.05
142851.80	23705.86	6420.94	18028.35	107808.63
145788.56	23303.13	6368.71	17895.16	107513.99
148799.61	22943.51	6317.82	17753.59	107366.39
151858.14	22633.75	6272.27	17627.77	107334.20
154893.80	22365.09	6230.02	17523.14	107405.04
157856.69	22122.13	6192.35	17409.48	107602.53
1042048.00	161242.07	44270.24	124399.36	753292.82
1595294.52	179999.97	44178.34	146992.00	971333.55
1634420.53	183991.78	45955.64	150473.46	988270.39
1674533.89	188152.54	47701.51	153887.31	1005635.25
1714068.99	192408.31	49412.21	157033.57	1023154.86
1752627.55	196866.85	51116.62	160132.43	1040454.79
1789622.91	201121.80	52790.29	163246.27	1057479.20
1824955.64	205369.87	54421.84	166034.00	1074406.70
11985524.03	1347911.11	345576.45	1097799.05	7160734.75
3665.14	847.86	225.03	490.67	2439.05
3652.02	808.10	218.22	483.36	2389.60
3639.26	770.23	211.16	475.19	2347.25
3626.22	734.83	204.12	466.48	2308.80
3614.54	701.79	197.70	458.99	2274.60
3602.44	668.06	190.61	452.60	2241.61
3592.82	639.87	184.92	444.65	2219.05
25392.44	5170.74	1431.76	3271.93	16219.96
15391.44	3014.06	706.53	2259.99	10645.28
15630.82	2930.29	700.12	2240.08	10625.13

15876.34	2849.10	693.15	2217.99	10623.38
16121.24	2775.89	686.09	2192.67	10630.01
16368.31	2705.68	679.52	2174.13	10644.16
16611.17	2641.46	673.11	2150.34	10670.50
16848.82	2583.40	665.52	2128.35	10704.78
112848.13	19499.87	4804.03	15363.54	74543.25
200202.30	33129.85	9353.46	24077.06	163427.61
206170.56	32823.65	9320.93	24005.46	163574.47
212172.32	32553.66	9280.82	23937.33	163888.10
218246.73	32337.75	9240.96	23872.84	164385.79
224389.43	32164.23	9208.07	23825.11	165045.31
230456.10	32032.99	9179.81	23785.59	165841.35
236371.45	31940.72	9155.39	23721.90	166778.32
1528008.89	226982.84	64739.44	167225.31	1152940.94
66949.66	7950.00	2437.47	5362.76	47848.38
69465.63	8069.78	2456.09	5495.48	48612.00
71956.49	8202.08	2473.73	5621.60	49410.15
74428.22	8339.76	2495.09	5735.08	50248.54
76891.10	8492.75	2518.97	5851.11	51102.58
79289.87	8652.95	2543.98	5968.90	51980.35
81599.84	8818.10	2571.64	6073.57	52874.30
520580.81	58525.42	17496.97	40108.49	352076.30
195969.52	28614.33	7722.89	20751.93	151408.19
201721.52	28513.51	7750.42	20826.97	152022.90
207531.53	28467.58	7772.62	20884.25	152822.30
213419.00	28468.66	7797.25	20938.60	153795.77
219378.92	28508.23	7826.64	20989.54	154888.08
225257.72	28564.58	7857.90	21072.83	156108.61
230983.65	28667.46	7888.29	21123.14	157451.51
1494261.87	199804.35	54616.00	146587.26	1078497.37
40786.11	6208.86	1551.30	5562.15	29456.25
41024.33	6107.33	1544.11	5480.68	29099.69
41293.76	6011.72	1536.06	5403.68	28795.23
41594.99	5930.29	1528.70	5324.78	28532.12
41924.76	5856.30	1520.77	5257.48	28307.77
42262.07	5794.33	1513.08	5201.47	28132.11
42595.10	5735.63	1504.29	5137.17	27996.66
291481.12	41644.46	10698.31	37367.41	200319.84
12457.07	3590.06	846.62	1770.03	9037.08
12421.15	3415.91	822.32	1725.55	8844.29
12394.56	3258.19	797.92	1684.60	8673.85
12377.20	3111.45	773.23	1651.56	8522.45
12364.41	2969.57	749.37	1620.51	8382.65
12351.73	2837.93	725.33	1588.02	8254.18
12340.65	2708.39	703.64	1558.16	8136.79
86706.77	21891.50	5418.42	11598.44	59851.27
57406.87	12720.66	3320.13	8175.66	39737.84

57702.82	12311.70	3255.87	8027.24	39362.62
57993.43	11927.36	3188.96	7885.53	39034.65
58276.78	11551.02	3121.56	7741.16	38738.75
58546.01	11201.50	3056.78	7599.63	38462.07
58786.91	10863.19	2992.59	7474.51	38212.37
58996.08	10539.73	2929.02	7361.20	38000.04
407708.90	81115.16	21864.92	54264.94	271548.34
140522.79	25861.86	8180.53	14432.53	136229.42
145475.91	25462.15	8036.28	14496.36	135313.37
150455.53	25061.37	7886.59	14564.26	134511.60
155465.32	24691.00	7735.66	14618.83	133781.61
160475.33	24358.30	7593.74	14684.70	133128.01
165388.53	24037.24	7453.01	14742.17	132535.88
170138.75	23750.74	7311.27	14790.90	132077.55
1087922.16	173222.65	54197.08	102329.76	937577.44
24479.81	5031.40	1168.74	3867.96	19706.69
24899.17	4913.75	1159.85	3810.27	19523.65
25321.62	4799.79	1149.98	3752.61	19364.10
25744.94	4694.23	1139.21	3701.17	19222.44
26169.11	4592.46	1129.44	3651.34	19094.24
26580.19	4504.64	1120.32	3601.14	18980.46
26976.02	4414.73	1111.03	3552.98	18900.05
180170.86	32950.99	7978.58	25937.47	134791.64
46542970.26	6313977.87	1610217.64	4875085.92	30611222.68

MH	MHDT	OBUS	SBUS	UBUS
2552.09	15910.45	976.12	513.91	1053.77
2514.73	16233.02	964.93	523.29	1056.88
2480.66	16537.36	952.72	532.60	1059.99
2453.34	16841.44	940.03	541.68	1063.10
2429.67	17141.11	931.72	550.55	1066.21
2409.32	17427.13	922.20	559.35	1069.32
2395.81	17698.06	912.43	567.79	1072.43
17235.61	117788.58	6600.15	3789.17	7441.70
37.58	27.32	5.06	8.99	0.94
36.24	26.58	4.86	9.08	0.94
34.86	26.13	4.68	9.15	0.94
33.58	25.69	4.51	9.19	0.94
32.31	25.29	4.34	9.21	0.94
31.05	25.03	4.18	9.20	0.94
29.92	24.77	4.04	9.19	0.94
235.54	180.82	31.67	64.02	6.57
332.82	465.64	26.28	52.82	15.55
310.67	474.95	26.20	53.30	15.60
288.97	484.47	26.07	53.64	15.65
269.36	494.37	25.95	53.88	15.70
250.72	504.11	25.85	54.07	15.74
232.80	513.29	25.71	54.21	15.78
216.18	522.47	25.43	54.08	15.82
1901.52	3459.30	181.49	376.00	109.85
1045.99	2026.35	160.92	194.96	59.52
984.22	2067.10	159.22	194.08	59.52
927.41	2108.85	157.83	192.82	59.52
874.20	2152.01	156.27	190.74	59.52
824.19	2195.88	155.00	188.19	59.52
777.28	2239.62	153.39	186.65	59.52
735.24	2284.28	151.96	185.87	59.52
6168.53	15074.09	1094.59	1333.31	416.61
471.47	469.49	22.58	69.21	6.57
438.99	472.76	21.36	69.00	6.57
408.40	476.73	21.03	68.77	6.57
379.14	480.39	20.76	68.62	6.57
351.81	484.36	20.52	68.57	6.57
326.52	488.15	20.25	68.64	6.57
301.84	491.80	19.94	68.74	6.57
2678.17	3363.69	146.44	481.54	45.99
221.49	546.61	22.01	62.96	8.69
212.87	553.41	21.42	62.83	8.73
204.15	560.66	20.89	62.80	8.77

196.56	569.44	20.34	62.85	8.81
189.54	578.02	19.90	62.97	8.86
183.10	586.36	19.50	63.09	8.90
177.11	594.18	19.13	63.20	8.95
1384.82	3988.68	143.19	440.69	61.70
2535.99	6317.62	384.65	525.38	348.18
2456.17	6430.70	383.23	534.10	349.21
2383.16	6540.01	381.89	542.45	350.24
2313.53	6651.43	380.91	550.53	351.27
2249.79	6762.73	379.58	558.28	352.30
2189.09	6871.70	378.89	565.58	353.32
2136.01	6977.50	377.85	572.64	354.35
16263.75	46551.69	2666.99	3848.96	2458.87
164.97	137.96	21.96	56.61	1.95
154.23	136.18	21.26	56.50	1.95
144.23	135.45	20.75	56.38	1.95
134.23	134.89	20.22	56.32	1.95
125.52	134.44	19.74	56.37	1.95
117.44	134.01	19.31	56.40	1.95
109.78	133.69	18.81	56.41	1.95
950.41	946.63	142.06	394.99	13.66
1296.21	1904.37	109.76	191.66	44.51
1228.32	1949.20	111.03	191.14	45.74
1163.97	1996.07	112.58	190.07	46.97
1103.88	2043.73	114.04	188.57	48.20
1045.49	2091.28	115.15	187.37	49.43
989.53	2138.22	116.12	187.06	50.66
937.10	2184.51	116.81	186.70	51.90
7764.49	14307.38	795.48	1322.59	337.42
2197.60	8812.98	453.48	1333.12	250.98
2123.46	9037.31	445.62	1338.65	253.03
2055.45	9261.35	439.64	1344.55	255.06
1992.11	9494.08	431.36	1351.48	257.07
1932.45	9726.71	427.00	1357.72	259.04
1876.27	9955.73	422.57	1363.97	261.05
1827.29	10179.36	417.13	1369.77	263.01
14004.63	66467.52	3036.80	9459.25	1799.23
198.98	594.76	18.77	49.52	10.88
190.67	600.36	18.28	49.45	10.92
182.93	607.07	17.88	49.31	10.96
175.79	615.11	17.49	48.97	10.99
168.51	623.49	17.21	48.60	11.03
161.73	631.63	16.94	48.48	11.07
156.05	639.10	16.65	48.12	11.10
1234.65	4311.52	123.21	342.47	76.94
579.81	1213.36	98.23	172.88	41.81
541.52	1225.84	96.19	173.09	41.81

504.80	1239.55	94.39	173.11	41.81
471.16	1253.31	92.41	172.85	41.81
440.63	1266.23	90.59	172.52	41.81
411.83	1278.59	88.60	172.38	41.81
386.99	1290.38	86.59	172.03	41.81
3336.74	8767.27	647.00	1208.87	292.65
1030.49	2008.97	164.65	302.63	42.94
993.40	2058.42	163.12	303.72	43.03
958.21	2109.71	162.64	304.90	43.12
927.57	2163.92	161.70	305.91	43.20
897.93	2219.79	161.04	306.71	43.29
870.55	2276.46	159.28	307.46	43.38
847.55	2334.89	158.00	307.94	43.46
6525.69	15172.17	1130.42	2139.27	302.43
433.64	298.99	41.00	70.29	49.60
410.13	299.60	40.03	70.71	49.60
388.29	300.80	39.18	70.96	49.60
368.32	302.69	38.51	70.98	49.60
348.54	304.83	37.89	71.00	49.60
329.73	307.08	37.30	71.27	49.60
313.40	309.54	36.69	71.44	49.60
2592.06	2123.53	270.61	496.65	347.17
574.55	1226.78	110.58	182.01	41.42
552.42	1258.96	105.97	182.33	41.78
531.78	1290.33	103.49	182.57	42.14
512.68	1322.82	101.69	182.58	42.47
494.01	1355.90	100.32	182.48	42.82
476.63	1388.41	99.08	182.34	43.17
461.92	1420.93	97.61	182.07	43.53
3604.00	9264.11	718.73	1276.39	297.32
540.92	526.95	29.41	121.32	
498.50	529.61	28.87	121.57	
459.26	532.54	27.60	121.66	
420.96	536.20	27.46	121.33	
386.81	539.84	27.38	121.03	
355.63	543.94	27.30	121.32	
327.26	547.94	27.19	121.51	
2989.33	3757.01	195.21	849.74	
303.59	292.18	60.29	41.37	7.70
284.20	292.68	58.48	41.09	7.70
265.04	292.75	56.78	40.94	7.70
248.67	294.21	55.14	40.95	7.70
233.30	296.10	52.98	41.03	7.70
218.40	298.09	51.57	41.19	7.70
205.76	300.29	50.28	41.40	7.70
1758.95	2066.30	385.51	287.96	53.87
772.78	1457.65	92.99	304.71	31.40

733.98	1483.84	91.51	304.56	31.59
696.87	1510.94	90.14	304.02	31.76
662.66	1539.09	88.93	303.54	31.95
629.33	1566.23	87.98	303.77	32.11
597.65	1592.77	87.06	304.37	32.28
568.46	1618.53	85.95	305.31	32.44
4661.71	10769.05	624.55	2130.27	223.52
690.44	1864.23	166.68	150.36	109.58
677.83	1883.97	164.17	152.49	109.90
665.91	1903.28	161.60	154.34	110.22
655.67	1922.82	158.93	156.00	110.55
645.82	1943.24	156.89	157.39	110.87
635.80	1963.29	154.54	158.50	111.19
627.81	1982.77	152.06	159.33	111.52
4599.27	13463.61	1114.88	1088.41	773.82
149.58	130.98	4.51	38.95	2.96
137.42	131.97	4.49	39.14	2.96
125.97	132.70	4.53	39.39	2.96
115.39	133.78	4.55	39.71	2.96
106.01	134.76	4.58	40.05	2.96
97.04	135.65	4.62	40.43	2.96
88.85	136.38	4.59	40.83	2.96
820.26	936.20	31.86	278.50	20.75
687.40	1140.75	69.56	143.61	31.51
645.53	1150.29	67.51	143.64	31.51
605.94	1160.33	65.99	143.56	31.51
569.23	1171.11	64.46	143.22	31.51
534.38	1181.69	63.05	142.76	31.51
501.97	1192.28	61.53	142.41	31.51
471.09	1202.48	60.12	141.44	31.51
4015.54	8198.93	452.23	1000.63	220.56
644.44	2202.49	113.95	452.30	70.23
614.93	2243.99	113.69	453.54	71.19
586.42	2288.62	113.37	453.80	72.15
560.57	2334.61	113.24	453.76	73.13
536.29	2380.16	113.10	453.90	74.14
513.72	2425.38	112.77	454.45	75.16
492.56	2469.11	112.20	455.09	76.20
3948.93	16344.35	792.32	3176.84	512.20
91.15	139.36	11.49	25.42	5.64
85.72	138.87	11.23	25.67	5.64
80.23	138.56	11.03	25.86	5.64
75.62	138.37	10.84	26.02	5.64
71.39	138.32	10.74	26.13	5.64
66.87	138.50	10.65	26.17	5.64
63.24	138.85	10.50	26.09	5.64
534.22	970.83	76.47	181.35	39.51

212.43	160.20	45.43	26.69	
201.13	160.47	45.14	26.82	
190.84	161.19	44.87	26.91	
180.87	162.10	44.48	26.89	
171.48	163.37	44.17	26.85	
162.95	164.69	43.86	26.78	
154.63	166.21	43.44	26.70	
1274.33	1138.23	311.39	187.65	
1083.43	3874.85	301.00	988.96	171.33
1037.20	3937.41	302.03	990.30	171.80
993.79	3998.01	301.69	990.22	172.27
955.18	4063.20	302.37	988.69	172.74
917.70	4128.15	302.54	984.97	173.20
882.44	4192.37	302.69	978.56	173.67
852.48	4255.42	299.87	969.33	174.14
6722.22	28449.41	2112.19	6891.03	1209.15
457.08	1505.35	159.17	112.55	59.40
437.71	1521.20	157.17	114.10	59.57
419.48	1536.75	155.11	115.59	59.75
402.42	1553.24	152.91	116.99	59.92
385.76	1569.37	151.09	118.31	60.10
369.05	1584.47	148.89	119.56	60.27
354.86	1598.51	146.39	120.73	60.45
2826.35	10868.89	1070.71	817.83	419.45
916.82	865.73	106.47	59.04	23.60
865.29	890.99	106.56	59.27	23.64
816.59	915.83	106.44	59.34	23.67
769.54	941.25	105.98	59.19	23.68
724.46	967.22	105.40	59.05	23.69
679.87	993.26	103.73	59.16	23.70
640.06	1018.93	101.87	59.25	23.70
5412.64	6593.21	736.44	414.30	165.67
8992.54	35243.07	1416.83	2244.59	836.39
8821.36	35796.68	1413.76	2258.42	838.08
8660.21	36283.85	1418.05	2273.26	839.77
8509.98	36755.16	1419.11	2286.54	841.46
8362.86	37186.78	1423.92	2298.57	843.14
8219.93	37570.57	1425.81	2308.71	844.83
8101.92	37908.02	1426.47	2315.72	846.52
59668.80	256744.12	9943.94	15985.81	5890.19
222.24	234.62	22.20	28.02	8.85
206.24	233.64	22.03	28.04	8.85
192.16	233.43	21.86	28.05	8.85
178.22	233.88	21.64	28.07	8.85
166.52	234.34	21.39	28.09	8.85
154.81	235.45	21.06	28.08	8.85
144.47	236.60	20.74	28.00	8.85

1264.67	1641.96	150.92	196.35	61.98
3943.62	16992.46	1146.86	1118.51	530.69
3784.87	17247.92	1140.44	1125.08	545.37
3638.77	17502.31	1131.61	1134.03	560.04
3502.81	17781.70	1124.85	1142.35	574.72
3373.59	18070.13	1118.43	1149.70	589.40
3250.28	18368.42	1111.07	1155.06	604.07
3139.69	18670.15	1102.96	1159.23	618.75
24633.63	124633.09	7876.23	7983.97	4023.05
323.82	697.90	24.32	65.69	22.33
307.69	708.42	24.14	66.17	22.39
292.48	719.60	23.27	66.63	22.45
278.27	731.20	23.30	67.08	22.51
264.58	742.93	23.39	67.54	22.57
251.43	754.69	23.58	67.99	22.63
239.56	765.86	23.64	68.40	22.70
1957.81	5120.59	165.64	469.49	157.59
14230.17	21331.17	1856.14	2428.64	1055.07
13613.67	21695.16	1842.60	2430.85	1091.57
13031.63	22055.35	1822.54	2428.75	1128.06
12503.25	22422.53	1798.30	2427.73	1164.56
11992.42	22790.15	1787.14	2424.67	1201.06
11503.15	23152.08	1772.89	2417.05	1237.55
11069.10	23502.94	1758.75	2405.02	1274.05
87943.40	156949.37	12638.36	16962.71	8151.92
367.54	3960.28	991.26	285.23	985.15
375.80	4013.02	977.77	288.70	988.06
383.69	4063.83	962.65	292.25	990.97
393.17	4114.52	971.23	295.78	993.88
403.57	4166.14	987.47	299.33	996.79
413.51	4216.90	994.40	302.77	999.70
424.30	4267.77	1006.43	306.28	1002.60
2761.58	28802.46	6891.22	2070.34	6957.16
2060.27	6387.64	262.83	712.88	209.78
1977.36	6544.19	260.99	719.97	212.17
1900.14	6703.77	259.59	726.70	214.56
1828.12	6865.60	257.57	732.90	216.94
1760.36	7027.71	256.05	738.45	219.33
1697.10	7187.94	255.32	743.41	221.70
1640.60	7344.07	254.26	747.71	224.04
12863.95	48060.90	1806.60	5122.02	1518.52
2347.37	2838.28	261.15	318.48	83.17
2222.27	2892.61	253.26	318.05	83.77
2102.48	2948.53	247.18	316.85	84.37
1989.68	3006.22	240.13	315.58	84.97
1880.18	3063.44	234.66	313.71	85.57
1775.41	3120.70	228.57	311.45	86.18

1678.58	3177.78	221.33	308.99	86.78
13995.96	21047.57	1686.28	2203.12	594.81
1158.50	5092.03	1340.36	243.04	441.37
1215.05	5206.50	1375.63	248.85	442.68
1271.93	5317.66	1409.71	254.24	443.98
1328.64	5428.31	1444.99	259.43	445.28
1383.79	5538.87	1477.41	264.47	446.59
1437.66	5646.48	1507.74	269.57	447.89
1493.46	5749.71	1533.93	274.23	449.19
9289.03	37979.57	10089.77	1813.83	3116.98
1495.05	4115.94	305.63	1241.59	206.74
1421.79	4166.43	300.56	1250.04	207.37
1353.43	4216.01	296.63	1259.37	208.00
1288.85	4268.77	291.78	1268.35	208.64
1229.24	4320.06	288.13	1276.93	209.27
1170.12	4370.15	283.35	1284.71	209.91
1119.35	4418.15	278.67	1291.32	210.54
9077.84	29875.53	2044.74	8872.31	1460.47
3397.93	11926.59	1344.43	869.75	531.49
3332.42	12150.04	1362.91	881.21	533.06
3273.96	12361.06	1381.83	892.54	534.63
3222.27	12574.02	1400.85	902.73	536.20
3174.10	12783.97	1419.56	912.38	537.77
3132.32	12986.39	1436.55	921.34	539.34
3099.63	13176.89	1451.16	928.98	540.91
22632.63	87958.97	9797.29	6308.94	3753.39
886.59	2349.87	167.16	216.38	116.30
836.47	2370.25	165.40	217.82	116.61
789.60	2390.05	163.97	218.92	116.93
746.72	2411.21	162.81	219.60	117.25
705.86	2431.84	161.64	220.13	117.57
666.62	2451.06	159.82	220.66	117.89
631.90	2468.57	157.05	220.78	118.20
5263.75	16872.85	1137.85	1534.29	820.75
1464.73	1819.56	141.87	273.57	44.51
1381.35	1856.42	138.27	273.90	46.16
1302.21	1893.10	136.38	274.35	47.82
1228.28	1931.27	133.46	275.24	49.48
1158.16	1969.46	131.53	276.15	51.13
1090.95	2007.20	129.60	277.37	52.79
1029.12	2044.07	127.50	278.11	54.45
8654.80	13521.09	938.62	1928.69	346.34
55.37	52.96	7.54	5.01	1.88
52.54	51.94	7.24	4.96	1.88
49.92	51.95	7.00	4.92	1.88
47.44	52.05	6.75	4.90	1.88
44.90	52.11	6.54	4.89	1.88

42.57	52.36	6.35	4.89	1.88
40.50	52.61	6.12	4.89	1.88
333.25	365.99	47.54	34.46	13.14
557.80	626.03	71.67	109.77	11.59
525.51	629.38	70.81	109.89	11.59
493.86	634.53	69.95	110.06	11.59
465.95	640.93	69.03	110.09	11.59
439.84	648.64	66.62	110.05	11.59
413.77	656.88	65.69	109.92	11.59
390.43	665.79	64.80	109.58	11.59
3287.17	4502.17	478.57	769.37	81.15
1804.47	5362.01	283.60	790.19	148.74
1715.83	5496.37	285.03	796.26	149.91
1633.91	5628.07	286.36	801.53	151.06
1556.32	5763.51	287.08	806.79	152.25
1483.25	5899.11	286.93	812.58	153.44
1414.07	6032.27	286.97	817.84	154.62
1350.41	6161.27	286.77	822.42	155.78
10958.26	40342.61	2002.74	5647.61	1065.81
405.79	1510.79	41.36	124.21	
388.07	1554.68	40.84	125.38	
371.07	1600.26	40.43	126.38	
356.04	1646.36	40.17	127.24	
341.72	1693.18	40.00	127.96	
328.15	1739.35	39.82	128.44	
316.17	1785.73	39.65	128.29	
2507.02	11530.35	282.26	887.91	
570.06	646.08	63.29	149.81	12.83
539.22	656.15	61.46	149.84	12.87
509.58	667.07	59.75	150.00	12.92
482.27	678.49	58.14	150.37	12.96
455.84	689.94	56.81	150.90	13.01
430.95	701.56	55.31	151.50	13.06
407.81	713.42	53.98	152.16	13.11
3395.73	4752.72	408.74	1054.58	90.77
213.02	182.51	19.91	43.02	5.63
200.50	181.19	19.51	43.06	5.63
188.96	181.65	19.12	43.04	5.63
178.30	182.42	18.76	42.94	5.63
168.14	183.59	18.45	42.85	5.63
157.60	185.08	18.14	42.75	5.63
149.08	186.66	17.84	42.59	5.63
1255.60	1283.11	131.74	300.26	39.42
1479.56	4455.23	237.31	715.93	168.14
1417.41	4578.69	235.24	717.30	169.34
1357.20	4699.03	234.09	718.30	170.50
1301.36	4823.87	233.54	719.72	171.62

1247.69	4949.15	233.23	720.67	172.70
1198.37	5072.99	232.40	720.99	173.75
1152.93	5195.01	230.18	720.79	174.77
9154.51	33773.97	1636.00	5033.69	1200.81
524.42	450.67	62.45	112.44	19.07
487.66	453.97	59.96	112.64	19.07
452.90	457.62	58.64	112.85	19.07
421.30	461.11	57.26	113.06	19.07
390.31	465.31	56.07	113.26	19.07
361.95	469.54	54.65	113.40	19.07
335.59	473.80	53.26	113.52	19.07
2974.12	3232.01	402.29	791.18	133.48
4173.83	6796.24	361.65	510.31	196.21
3969.25	6921.10	356.86	513.74	196.60
3772.64	7041.23	352.40	517.27	197.00
3590.76	7161.56	346.33	519.96	197.40
3412.41	7279.14	341.95	522.38	197.79
3241.43	7390.66	337.82	524.75	198.19
3083.19	7496.79	333.53	526.29	198.58
25243.50	50086.72	2430.54	3634.71	1381.77
628.22	3172.38	155.16	162.01	151.63
604.76	3250.12	155.32	162.88	155.83
583.09	3327.29	155.65	163.55	160.02
563.50	3405.90	156.22	163.61	164.21
543.43	3483.67	156.84	163.73	168.41
525.37	3558.61	157.46	164.47	172.60
509.05	3629.70	157.55	165.31	176.79
3957.43	23827.66	1094.20	1145.57	1149.49
260.31	432.49	35.28	165.67	55.05
245.32	439.13	34.94	166.51	56.57
231.21	446.27	34.68	167.12	58.10
218.19	453.97	34.35	167.49	59.62
205.33	461.82	34.08	167.63	61.14
193.31	470.30	33.79	167.69	62.66
182.74	478.73	33.43	167.75	64.19
1536.42	3182.71	240.54	1169.87	417.34
1231.40	877.82	84.87	158.49	16.43
1157.34	902.14	84.29	159.60	16.87
1085.68	926.69	83.83	160.99	17.32
1019.51	952.70	83.44	162.39	17.76
956.24	979.21	83.03	163.87	18.21
895.25	1006.24	81.81	165.27	18.65
840.72	1034.14	80.55	166.36	19.10
7186.14	6678.95	581.82	1136.97	124.33
1145.98	1823.05	95.49	447.18	95.09
1080.33	1864.25	94.96	446.62	95.28
1017.56	1904.87	94.57	446.61	95.47

958.56	1946.21	93.70	446.46	95.67
902.49	1987.18	93.37	445.89	95.86
849.16	2026.51	92.87	445.17	96.05
800.07	2064.76	92.24	444.61	96.24
6754.13	13616.83	657.19	3122.53	669.67
198.71	210.48	33.59	19.30	
188.87	212.85	31.51	19.61	
179.93	215.43	30.49	19.91	
170.63	218.17	29.54	20.23	
163.09	221.46	28.59	20.56	
155.63	224.80	27.90	20.91	
149.27	228.07	27.23	21.25	
1206.14	1531.27	208.85	141.77	
156.10	70.02	15.55	13.68	
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144.65	68.37	14.58	13.87	
139.60	67.76	14.14	13.97	
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3376.48	3992.14	319.70	762.27	163.43
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26338.76	26925.73	2300.49	5227.51	1139.47
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66.73	123.09	27.49	5.28	
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403.35	255.34	36.60	20.72	

384.85	258.92	35.86	20.84	
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320.68	276.00	33.33	21.42	
2585.61	1844.20	246.65	147.03	
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5698.60	15973.99	617.38	1405.18	401.97
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1300.62	3332.77	174.85	400.62	139.90
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1238.65	3510.11	175.63	407.20	140.46
1211.69	3597.74	175.58	409.95	140.74
9126.39	23335.12	1223.15	2800.86	979.30
4738.37	16648.89	614.17	1072.14	309.97
4556.83	17116.54	610.63	1080.50	310.59
4384.49	17572.53	608.68	1088.47	311.22
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4071.24	18498.23	604.61	1103.04	312.47
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787.81	2588.08	225.91	315.86	128.85
755.29	2629.55	225.74	315.10	129.23
724.87	2669.54	225.89	315.36	129.61
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Calculated Field

Solve Order	Field	Formula
1	mpg	=CVMT/(1000*'Fuel Consumption')
2	FF_Fraction	=CVMT /'Total VMT'
3	Elec_Fraction	=EVMT /'Total VMT'
4	galpermi	= 'Fuel Consumption' *1000/CVMT
5	kwhpermi	= 'Energy Consumption' /EVMT

Calculated Item

Solve Order	Item	Formula
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Note:

When a cell is updated by more than one formula, the value is set by the formula with the last solve order.

To change the solve order for multiple calculated items or fields, on the Options tab, in the Calculations group, click Fields, Items, & Sets, and then click Solve

Order.

See PivotFormulas for verification of calculations, formulas used

Sum of mpg		Vehicle Category			
Region	Calendar Year	HHDT	LDA	LDT1	LDT2
Alameda	2024	5.940235025	30.08729094	25.26101559	24.49772642
Alameda	2025	6.023275337	30.71016556	25.70180155	25.10466871
Alameda	2026	6.111037527	31.35094378	26.15805413	25.69845321
Alameda	2027	6.208574142	31.98124507	26.62580084	26.26615769
Alameda	2028	6.315415883	32.586155	27.09165687	26.80111031
Alameda	2029	6.422971427	33.16165196	27.55512766	27.30320346
Alameda	2030	6.52973466	33.70210211	28.01164242	27.77255989
Alameda Total		6.217612399	31.89028596	26.55233371	26.18878742
Alpine	2024	6.126415548	30.88816014	25.30484139	24.82993965
Alpine	2025	6.243668394	31.5397209	25.73693685	25.4368164
Alpine	2026	6.362645711	32.19959458	26.18699667	26.0301766
Alpine	2027	6.493767269	32.837613	26.64965449	26.59254384
Alpine	2028	6.633311229	33.44673201	27.1067053	27.12205453
Alpine	2029	6.768217494	34.01879477	27.56807276	27.62344551
Alpine	2030	6.897121694	34.54909972	28.02643129	28.08650005
Alpine Total		6.502346702	32.7145455	26.55796599	26.4936371
Amador	2024	5.206017319	30.50615333	24.19594858	23.96130311
Amador	2025	5.262118793	31.19600262	24.49193668	24.46667397
Amador	2026	5.320756045	31.89805645	24.78890382	24.98106551
Amador	2027	5.384423558	32.59172946	25.11413923	25.48975315
Amador	2028	5.454457657	33.25824161	25.45106769	25.98920215
Amador	2029	5.521181558	33.88635326	25.81907759	26.47708261
Amador	2030	5.587194538	34.47134427	26.20487179	26.95127591
Amador Total		5.387611921	32.52881039	25.06436542	25.45191899
Butte	2024	6.001393946	29.2779504	23.72712071	23.52257903
Butte	2025	6.107518463	29.94237403	24.11821424	24.11877174
Butte	2026	6.218166135	30.61268212	24.53192992	24.70941818
Butte	2027	6.33882972	31.26447806	24.96675728	25.28331567
Butte	2028	6.46599202	31.87932776	25.41105219	25.82927677
Butte	2029	6.589757494	32.45393981	25.87021625	26.34554048
Butte	2030	6.706822175	32.98318661	26.33880508	26.83172626
Butte Total		6.348393253	31.19337562	24.88915487	25.20785989
Calaveras	2024	5.832685387	29.13314405	22.94451072	22.81323164
Calaveras	2025	5.909269812	29.78104465	23.22429506	23.28992457
Calaveras	2026	5.991167827	30.43776842	23.50800442	23.76749625
Calaveras	2027	6.076411945	31.08073452	23.81010834	24.24063713
Calaveras	2028	6.168112739	31.68640296	24.12774396	24.70488514
Calaveras	2029	6.258282092	32.25111272	24.46508003	25.15497113
Calaveras	2030	6.344711932	32.7741538	24.83042133	25.58686797
Calaveras Total		6.077327366	30.99070142	23.75609637	24.19533634
Colusa	2024	6.098366695	29.32072327	24.11517186	23.7799861
Colusa	2025	6.200049823	29.940288	24.57776488	24.40370785
Colusa	2026	6.306429532	30.57335401	25.05710378	25.00997525

Colusa	2027	6.422552287	31.19150218	25.54617254	25.58477698
Colusa	2028	6.547153851	31.77879125	26.03163549	26.12197347
Colusa	2029	6.669067892	32.33100599	26.51352978	26.62163216
Colusa	2030	6.785715006	32.84547643	26.9872619	27.08600615
Colusa Total		6.426296786	31.10197013	25.46475744	25.50369905
Contra Costa	2024	5.812007714	30.12656795	25.21036748	24.44467535
Contra Costa	2025	5.89427171	30.75904021	25.64674365	25.03999059
Contra Costa	2026	5.980530772	31.41285557	26.09802943	25.62595832
Contra Costa	2027	6.075452772	32.059024	26.56175485	26.19078606
Contra Costa	2028	6.178457531	32.67888422	27.02525293	26.72703747
Contra Costa	2029	6.281659279	33.26610418	27.48941477	27.23426489
Contra Costa	2030	6.384223404	33.81474054	27.94864732	27.71219914
Contra Costa Total		6.082265857	31.97240792	26.49044731	26.1191007
Del Norte	2024	5.024968313	28.14984573	22.50746956	22.31531536
Del Norte	2025	5.094527927	28.74910179	22.82982222	22.81070187
Del Norte	2026	5.169176064	29.36716839	23.1604327	23.30770451
Del Norte	2027	5.246533298	29.98544134	23.51376985	23.79356079
Del Norte	2028	5.3247071	30.58445682	23.87924055	24.26718428
Del Norte	2029	5.414396978	31.15698376	24.26043127	24.72046616
Del Norte	2030	5.488449316	31.70049022	24.66347336	25.15697586
Del Norte Total		5.246228534	29.90811114	23.45157264	23.74362162
El Dorado	2024	5.210429975	29.64637042	24.27899524	23.69005277
El Dorado	2025	5.276017188	30.34025279	24.6337156	24.19437805
El Dorado	2026	5.347992854	31.04202936	25.00367714	24.70104426
El Dorado	2027	5.423363205	31.68204981	25.36227694	25.17111108
El Dorado	2028	5.50128048	32.37655478	25.80485244	25.69975877
El Dorado	2029	5.577023411	32.96283598	26.20741209	26.16257687
El Dorado	2030	5.65124205	33.49849795	26.6186305	26.60308745
El Dorado Total		5.423867676	31.62508122	25.32973866	25.15206946
Fresno	2024	5.99164438	29.60070339	24.44057198	23.89015364
Fresno	2025	6.088033157	30.20964777	24.90794856	24.50939799
Fresno	2026	6.188433045	30.8370583	25.38919191	25.11550789
Fresno	2027	6.298544942	31.47773517	25.89516026	25.71101843
Fresno	2028	6.416690715	32.07382409	26.38150507	26.25336301
Fresno	2029	6.532138132	32.63940884	26.86336652	26.76047614
Fresno	2030	6.643395224	33.17354386	27.33931779	27.23641659
Fresno Total		6.306374817	31.39078094	25.81601381	25.63589069
Glenn	2024	6.075212787	28.75926996	23.70121006	23.46238465
Glenn	2025	6.173030752	29.3697887	24.16070106	24.0782631
Glenn	2026	6.274883698	29.99327071	24.63684843	24.67785379
Glenn	2027	6.386480128	30.60498154	25.12313061	25.24719074
Glenn	2028	6.506437104	31.18748961	25.6073677	25.77927554
Glenn	2029	6.624797759	31.73631881	26.09151362	26.27476159
Glenn	2030	6.73699201	32.24854219	26.56654452	26.73451886
Glenn Total		6.389386701	30.52434144	25.02777712	25.15704513
Humboldt	2024	5.83258655	29.37539256	23.64746059	23.34682534
Humboldt	2025	5.915770695	29.97625506	23.93727949	23.84008193

Humboldt	2026	6.004331496	30.59684238	24.24295305	24.33455156
Humboldt	2027	6.100952648	31.22037038	24.56778703	24.82266661
Humboldt	2028	6.204730434	31.82931235	24.90213838	25.29927212
Humboldt	2029	6.306850186	32.4176034	25.25651032	25.75946865
Humboldt	2030	6.40728505	32.9805762	25.62871201	26.20298423
Humboldt Total		6.104830632	31.14697202	24.50903073	24.77504996
Imperial	2024	6.193650475	27.96627582	22.8208789	22.74473484
Imperial	2025	6.304644334	28.54375051	23.24481078	23.36248026
Imperial	2026	6.418433571	29.09469172	23.6488034	23.93165518
Imperial	2027	6.536896447	29.59469969	24.03329582	24.42878015
Imperial	2028	6.670395767	30.1333034	24.47235247	24.94508798
Imperial	2029	6.798318545	30.64154802	24.91687339	25.42686057
Imperial	2030	6.917936278	31.11663916	25.35521115	25.87192649
Imperial Total		6.556499556	29.54901414	23.99913925	24.38221281
Inyo	2024	6.05119492	28.24592722	23.00799524	22.80006628
Inyo	2025	6.159876838	28.8366124	23.4016116	23.35364088
Inyo	2026	6.272973266	29.43881712	23.80567348	23.89590296
Inyo	2027	6.396320059	30.0257221	24.22513051	24.41506205
Inyo	2028	6.529034881	30.58311975	24.64791186	24.90537435
Inyo	2029	6.659011277	31.10906341	25.07648271	25.36819679
Inyo	2030	6.780428936	31.59934742	25.50522394	25.80220522
Inyo Total		6.402821062	29.92019261	24.14490331	24.33126905
Kern-Mojave Desert	2024	6.145343499	30.05432152	24.58469561	24.29193215
Kern-Mojave Desert	2025	6.258937997	30.70194951	25.01712354	24.91296395
Kern-Mojave Desert	2026	6.376988955	31.37086586	25.46628343	25.5232094
Kern-Mojave Desert	2027	6.506900309	32.05033936	25.94968507	26.12508113
Kern-Mojave Desert	2028	6.645078535	32.6826674	26.42295727	26.67772509
Kern-Mojave Desert	2029	6.778172214	33.27981856	26.90050384	27.19787726
Kern-Mojave Desert	2030	6.90279978	33.84071152	27.38370143	27.69085265
Kern-Mojave Desert Total		6.515593716	31.95174757	25.88036705	26.06300031
Kern-San Joaquin	2024	6.073789111	29.40513538	24.43329282	24.04731583
Kern-San Joaquin	2025	6.172319465	30.02783574	24.94186042	24.6681347
Kern-San Joaquin	2026	6.275071761	30.66552694	25.45896919	25.26900105
Kern-San Joaquin	2027	6.388218402	31.2774502	25.96824314	25.82551523
Kern-San Joaquin	2028	6.509122801	31.87107762	26.4757846	26.349514
Kern-San Joaquin	2029	6.627386833	32.42924264	26.97082176	26.8346177
Kern-San Joaquin	2030	6.740682211	32.98424915	27.47773254	27.31460063
Kern-San Joaquin Total		6.397889359	31.19660711	25.90510553	25.76941227
Kings	2024	6.082293419	28.71819407	23.56276615	23.23034269
Kings	2025	6.180232557	29.31217253	24.03968321	23.83671542
Kings	2026	6.282533696	29.92306361	24.52935528	24.42486771
Kings	2027	6.395348725	30.52756923	25.02577904	24.98202396
Kings	2028	6.515975948	31.10613136	25.51277824	25.49735077
Kings	2029	6.633939484	31.65536811	25.9917625	25.9755688
Kings	2030	6.747179906	32.1751112	26.45956133	26.42545078
Kings Total		6.404650702	30.44786474	24.95898743	24.92067214
Lake	2024	5.846076553	28.19537382	22.84709566	22.54808641

Lake	2025	5.899327123	28.76219692	23.1854191	23.07008746
Lake	2026	5.955903306	29.34180827	23.53487076	23.59358818
Lake	2027	6.018498085	29.924509	23.9114177	24.11124593
Lake	2028	6.086061611	30.49198199	24.2996378	24.61675517
Lake	2029	6.153750712	31.04326559	24.7078615	25.10591892
Lake	2030	6.222576861	31.57249051	25.13830436	25.57580873
Lake Total		6.021993209	29.87080526	23.84534574	24.07296486
Lassen	2024	5.529357963	28.16605795	22.74549342	22.50339534
Lassen	2025	5.604929205	28.77119546	23.12120187	23.01799499
Lassen	2026	5.682579406	29.38483732	23.50621084	23.52559473
Lassen	2027	5.763203398	29.98336294	23.90610023	24.01479866
Lassen	2028	5.848138278	30.54976524	24.31219243	24.4813675
Lassen	2029	5.935815912	31.08141349	24.72477811	24.92448719
Lassen	2030	6.021071614	31.57452549	25.1460838	25.34383331
Lassen Total		5.765152854	29.88281987	23.824954	23.93999082
Los Angeles-Mojav	2024	6.359671954	29.72023772	24.64633626	24.14210385
Los Angeles-Mojav	2025	6.465737307	30.24536888	25.04571656	24.81476722
Los Angeles-Mojav	2026	6.579825748	30.82380081	25.4812115	25.4936584
Los Angeles-Mojav	2027	6.703669504	31.24846092	25.80398031	26.00754837
Los Angeles-Mojav	2028	6.834472417	31.79438003	26.23301822	26.58341121
Los Angeles-Mojav	2029	6.96120136	32.32961651	26.66841968	27.12038476
Los Angeles-Mojav	2030	7.080839007	32.84912274	27.1054643	27.62240418
Los Angeles-Mojave Desert Total		6.70920497	31.2450508	25.78616192	25.94567073
Los Angeles-South	2024	6.025376403	28.98508674	24.21274271	23.77068379
Los Angeles-South	2025	6.108713755	29.57317801	24.68003356	24.40125831
Los Angeles-South	2026	6.194086255	30.1731479	25.15230852	25.00081162
Los Angeles-South	2027	6.28386002	30.74857382	25.62003015	25.5504897
Los Angeles-South	2028	6.380948627	31.2876875	26.06753337	26.04653834
Los Angeles-South	2029	6.478229762	31.79983116	26.50490412	26.498925
Los Angeles-South	2030	6.573005916	32.28359913	26.92834179	26.91306681
Los Angeles-South Coast Total		6.291745816	30.61560532	25.53739564	25.44117682
Madera	2024	6.068314729	29.23208629	23.95331341	23.4789693
Madera	2025	6.159345646	29.83817605	24.39915511	24.09294117
Madera	2026	6.254594379	30.46167971	24.86340204	24.69681084
Madera	2027	6.359998985	31.0717632	25.33472746	25.27162621
Madera	2028	6.473407286	31.66677682	25.81641745	25.81963832
Madera	2029	6.584961907	32.23259208	26.29956177	26.3353331
Madera	2030	6.693058946	32.77474852	26.78486351	26.82831173
Madera Total		6.363673626	31.00889647	25.26347408	25.20129448
Marin	2024	5.58724024	30.20553996	25.07324096	24.45493699
Marin	2025	5.671820289	30.85953851	25.5048202	25.00180453
Marin	2026	5.758989547	31.52518926	25.95148661	25.54255515
Marin	2027	5.850582389	32.17241058	26.40975811	26.06652107
Marin	2028	5.950474493	32.78376059	26.8674681	26.56788324
Marin	2029	6.051904922	33.35817609	27.32580911	27.04619797
Marin	2030	6.153238829	33.89138804	27.78287487	27.5011609
Marin Total		5.854900281	32.04798555	26.32446291	25.98494605

Mariposa	2024	4.694628132	28.27263861	22.37033873	22.05854736
Mariposa	2025	4.738531576	28.91875786	22.631823	22.52229843
Mariposa	2026	4.776596899	29.57186244	22.91621313	22.9952554
Mariposa	2027	4.817924568	30.2153646	23.2159498	23.47119239
Mariposa	2028	4.853463138	30.82898753	23.53163996	23.94654019
Mariposa	2029	4.891384987	31.40461244	23.86389474	24.41134744
Mariposa	2030	4.924414808	31.94704539	24.22155215	24.86598748
Mariposa Total		4.810151528	30.142792	23.15264282	23.42428764
Mendocino	2024	5.956563856	29.77266866	23.7963286	23.72605951
Mendocino	2025	6.049258023	30.39818316	24.14331023	24.25314679
Mendocino	2026	6.14687592	31.03564947	24.50545787	24.77502549
Mendocino	2027	6.254508447	31.6604325	24.88905323	25.28258552
Mendocino	2028	6.369507756	32.25776858	25.28263032	25.77074542
Mendocino	2029	6.482751999	32.82410757	25.69170727	26.2375086
Mendocino	2030	6.592171402	33.35708987	26.11462767	26.68005475
Mendocino Total		6.260517413	31.56847859	24.8189904	25.22416495
Merced	2024	6.075486243	29.90269157	24.23810442	23.7996147
Merced	2025	6.170199332	30.49026381	24.70098071	24.43947844
Merced	2026	6.26940736	31.10295233	25.1874556	25.07571573
Merced	2027	6.379139867	31.88389276	25.82898998	25.82855171
Merced	2028	6.496983178	32.49352902	26.35261467	26.42158319
Merced	2029	6.612872539	33.08256704	26.88441421	26.98391992
Merced	2030	6.7240845	33.62425042	27.40020791	27.49954913
Merced Total		6.38628366	31.77883671	25.71209167	25.72735271
Modoc	2024	5.602403824	26.29100006	21.39072127	21.0514707
Modoc	2025	5.690123279	26.84819631	21.76553341	21.55491779
Modoc	2026	5.774720901	27.41820299	22.15123205	22.05017103
Modoc	2027	5.861342135	27.97664644	22.55075038	22.52682324
Modoc	2028	5.94413237	28.51026841	22.94529325	22.98050314
Modoc	2029	6.024986515	29.0150733	23.35052199	23.41036428
Modoc	2030	6.104634701	29.48793142	23.75625385	23.81752084
Modoc Total		5.853482566	27.88952405	22.4756931	22.4612471
Mono	2024	6.054978359	29.37560808	23.81887618	23.35665536
Mono	2025	6.1609795	30.03269427	24.20941565	23.91227
Mono	2026	6.271039737	30.69257369	24.61330438	24.45949362
Mono	2027	6.391002477	31.32530425	25.03455617	24.98683895
Mono	2028	6.518851836	31.91806816	25.45577747	25.487576
Mono	2029	6.643343285	32.46988681	25.88364024	25.96263279
Mono	2030	6.760356698	32.97680938	26.31258217	26.40913701
Mono Total		6.395009742	31.22112446	24.95915378	24.91071752
Monterey	2024	5.863263523	29.76940396	24.30735811	23.72114567
Monterey	2025	5.954233044	30.37153307	24.69737252	24.28195428
Monterey	2026	6.048441469	30.99229283	25.10093857	24.8393373
Monterey	2027	6.15136137	31.60901811	25.522138	25.38359808
Monterey	2028	6.261286031	32.20475361	25.9465291	25.90749435
Monterey	2029	6.370189058	32.77415047	26.37803376	26.40885822
Monterey	2030	6.47410977	33.3110067	26.80881076	26.88632007

Monterey Total		6.157677969	31.5363713	25.46910903	25.33607969
Napa	2024	5.764855988	30.6069681	25.08336394	24.43217712
Napa	2025	5.837158924	31.26219937	25.47906567	24.98653344
Napa	2026	5.91436035	31.93249419	25.89020506	25.53967756
Napa	2027	5.99911567	32.58897289	26.32226105	26.08313027
Napa	2028	6.092655271	33.21313546	26.76103784	26.60957068
Napa	2029	6.185883224	33.79909142	27.20835988	27.11712634
Napa	2030	6.279882223	34.34425187	27.66032232	27.60604605
Napa Total		6.00295908	32.50483861	26.24526623	26.01117287
Nevada	2024	6.091940979	30.00029709	24.04680921	23.38577187
Nevada	2025	6.201787517	30.71318946	24.31842333	23.83077223
Nevada	2026	6.315796758	31.43033869	24.60240501	24.28156163
Nevada	2027	6.441240865	32.12396078	24.9050058	24.73400526
Nevada	2028	6.574342255	32.7753455	25.21888987	25.18122598
Nevada	2029	6.703465482	33.37903228	25.54988161	25.62009125
Nevada	2030	6.825148951	33.93228235	25.89563477	26.04901248
Nevada Total		6.450634511	32.02769295	24.8531338	24.69364392
Orange	2024	5.98277153	30.02292713	25.15444188	24.4669812
Orange	2025	6.059531629	30.67444195	25.63063339	25.09101145
Orange	2026	6.135447173	31.31631744	26.09219233	25.67237702
Orange	2027	6.215260132	31.89110161	26.51395204	26.17779262
Orange	2028	6.305089023	32.49057822	26.97447843	26.69328113
Orange	2029	6.394636368	33.04914296	27.42213351	27.17059622
Orange	2030	6.482078387	33.56475073	27.85437922	27.6123035
Orange Total		6.223712744	31.80360549	26.46847211	26.10548708
Placer-Lake Tahoe	2024	5.957490146	31.93305131	25.85702982	25.15222873
Placer-Lake Tahoe	2025	6.057586784	32.7504915	26.28115487	25.70731643
Placer-Lake Tahoe	2026	6.160650265	33.54615529	26.72315589	26.27286832
Placer-Lake Tahoe	2027	6.272879807	34.29411542	27.19161607	26.84204371
Placer-Lake Tahoe	2028	6.39161757	34.98261626	27.66690988	27.40444047
Placer-Lake Tahoe	2029	6.510983218	35.6063008	28.15811328	27.95675624
Placer-Lake Tahoe	2030	6.622081788	36.18158332	28.67410355	28.49432246
Placer-Lake Tahoe Total		6.281879344	34.23077257	27.12220187	26.78738615
Placer-Mountain C	2024	6.163523438	29.5666652	24.34768477	23.85855908
Placer-Mountain C	2025	6.278895953	30.20070825	24.77458894	24.46755916
Placer-Mountain C	2026	6.398501227	30.84987514	25.21838592	25.06532714
Placer-Mountain C	2027	6.530205378	31.44204744	25.64138239	25.60487377
Placer-Mountain C	2028	6.670043767	32.11110267	26.15328569	26.20003837
Placer-Mountain C	2029	6.804703001	32.68302405	26.6145013	26.7081156
Placer-Mountain C	2030	6.930816635	33.21772707	27.0763393	27.18447974
Placer-Mountain Counties Total		6.540707775	31.41013177	25.61541978	25.57878745
Plumas	2024	5.55634091	27.54092885	21.87377764	21.56621848
Plumas	2025	5.625462789	28.16938431	22.18594166	22.03653986
Plumas	2026	5.697040118	28.79865098	22.51690494	22.50656094
Plumas	2027	5.778954654	29.40446179	22.85950417	22.96714764
Plumas	2028	5.859466663	29.97137813	23.20803703	23.41254557
Plumas	2029	5.933477033	30.49814615	23.58025059	23.84276612

Plumas	2030	6.004448692	30.98014431	23.95925638	24.25593957
Plumas Total		5.773617226	29.30357597	22.78427159	22.90229315
Riverside-Mojave I	2024	6.144053292	27.27533959	22.31863242	22.27561462
Riverside-Mojave I	2025	6.256358788	27.85284503	22.76978821	22.87190172
Riverside-Mojave I	2026	6.372580901	28.44614306	23.22623401	23.45567809
Riverside-Mojave I	2027	6.514094837	29.05806744	23.72312113	24.03088732
Riverside-Mojave I	2028	6.650586847	29.60953068	24.18200455	24.53815462
Riverside-Mojave I	2029	6.781815893	30.13224138	24.64560129	25.00940827
Riverside-Mojave I	2030	6.904511385	30.62019577	25.09567957	25.4455766
Riverside-Mojave Desert MDAQMD Total		6.517154332	28.96115465	23.63905239	23.94846337
Riverside-Mojave I	2024	6.15491106	27.29377935	22.65885133	22.32796871
Riverside-Mojave I	2025	6.266740142	27.87173459	23.07747971	22.90698346
Riverside-Mojave I	2026	6.382532368	28.45758326	23.50385494	23.46463864
Riverside-Mojave I	2027	6.564964082	29.11158232	24.00890607	24.06364098
Riverside-Mojave I	2028	6.702113043	29.65875125	24.4399144	24.55666097
Riverside-Mojave I	2029	6.834032052	30.17671176	24.87124558	25.01568298
Riverside-Mojave I	2030	6.957345245	30.66218752	25.29287953	25.44248998
Riverside-Mojave Desert SCAQMD Total		6.550544009	28.98823695	23.91558924	23.96150641
Riverside-Salton Sea	2024	6.180042495	28.82759005	23.5837502	23.51211684
Riverside-Salton Sea	2025	6.286225952	29.4539465	24.0362573	24.11027924
Riverside-Salton Sea	2026	6.398230375	30.09196565	24.50120174	24.69063737
Riverside-Salton Sea	2027	6.532706533	30.68838357	24.96143441	25.2251625
Riverside-Salton Sea	2028	6.662392887	31.24549694	25.4169989	25.71918225
Riverside-Salton Sea	2029	6.787599885	31.75928812	25.86374247	26.1727688
Riverside-Salton Sea	2030	6.90544269	32.23018691	26.29647104	26.58921878
Riverside-Salton Sea Total		6.536028971	30.55511534	24.89609735	25.15010406
Riverside-South Coast	2024	6.104897073	29.68779503	24.55109333	24.32240052
Riverside-South Coast	2025	6.180916329	30.27825363	25.0315753	24.97042448
Riverside-South Coast	2026	6.26202619	30.91999751	25.55128962	25.62249227
Riverside-South Coast	2027	6.347960606	31.48575699	26.01602857	26.17468376
Riverside-South Coast	2028	6.441574328	32.06165121	26.50188921	26.70843687
Riverside-South Coast	2029	6.534735282	32.60712516	26.97691489	27.19608586
Riverside-South Coast	2030	6.626223197	33.11774285	27.43879982	27.64060223
Riverside-South Coast Total		6.357924963	31.40982608	25.9503898	26.09524013
Sacramento	2024	5.622924889	28.87351204	24.19024088	23.45782236
Sacramento	2025	5.715044452	29.46128756	24.59460444	24.03323445
Sacramento	2026	5.807852002	30.07122394	25.0175055	24.60477014
Sacramento	2027	5.906566453	30.6391295	25.42154135	25.12752565
Sacramento	2028	6.010323561	31.29121809	25.91443887	25.71090078
Sacramento	2029	6.112943652	31.85455466	26.35708513	26.213227
Sacramento	2030	6.214955886	32.3856743	26.79521534	26.68558887
Sacramento Total		5.909664422	30.60751045	25.39236027	25.10433012
San Benito	2024	6.099003357	30.50652516	24.95961248	24.66099042
San Benito	2025	6.200350319	31.14024718	25.47114039	25.30784319
San Benito	2026	6.306388984	31.78626908	26.00134819	25.93533948
San Benito	2027	6.423115305	32.41971537	26.54198713	26.53089821
San Benito	2028	6.547945848	33.0194357	27.07341992	27.08586086

San Benito	2029	6.66931285	33.58051868	27.59256746	27.60103196
San Benito	2030	6.784477578	34.10040002	28.09751087	28.07786713
San Benito Total		6.428671312	32.34930696	26.46274241	26.47947081
San Bernardino-Mojave Desert	2024	6.180973282	29.26682795	24.12640182	23.85258593
San Bernardino-Mojave Desert	2025	6.292089804	29.87048969	24.58862808	24.49495572
San Bernardino-Mojave Desert	2026	6.406714202	30.47026968	25.04481644	25.09908039
San Bernardino-Mojave Desert	2027	6.529588696	30.99735209	25.45748565	25.61363863
San Bernardino-Mojave Desert	2028	6.665269005	31.57847715	25.93258174	26.15203891
San Bernardino-Mojave Desert	2029	6.796006369	32.12892863	26.40443182	26.64848937
San Bernardino-Mojave Desert	2030	6.918489245	32.64399646	26.8684736	27.10599315
San Bernardino-Mojave Desert Total		6.540416582	30.94903623	25.42145979	25.56368737
San Bernardino-South Coast	2024	6.010114736	29.76692749	24.51896861	24.24721155
San Bernardino-South Coast	2025	6.094487761	30.36715006	25.00270077	24.90608225
San Bernardino-South Coast	2026	6.178539306	30.97582839	25.48918894	25.53175518
San Bernardino-South Coast	2027	6.268406811	31.58545986	25.98792182	26.12421175
San Bernardino-South Coast	2028	6.365112219	32.16923323	26.47926874	26.66635102
San Bernardino-South Coast	2029	6.46105089	32.72240495	26.96105606	27.16197366
San Bernardino-South Coast	2030	6.554263925	33.24065802	27.42985522	27.61412533
San Bernardino-South Coast Total		6.276338866	31.49316022	25.91540026	26.03747098
San Diego	2024	5.810678867	28.18724103	23.13875281	22.6620929
San Diego	2025	5.906273557	28.77765388	23.51752448	23.23146385
San Diego	2026	6.003364123	29.42722229	23.94272012	23.82007741
San Diego	2027	6.107993114	29.97438353	24.30752651	24.3112879
San Diego	2028	6.21963756	30.54467228	24.71008659	24.8086235
San Diego	2029	6.332655066	31.08536188	25.11426859	25.27633341
San Diego	2030	6.442748338	31.59103545	25.5201953	25.71565044
San Diego Total		6.113929028	29.89274363	24.2521479	24.22936491
San Francisco	2024	4.829835203	28.53188723	23.86857592	23.12832127
San Francisco	2025	4.924329668	29.1596222	24.24840962	23.65611147
San Francisco	2026	5.019507194	29.80473081	24.64165911	24.17261766
San Francisco	2027	5.115307085	30.43179333	25.04422515	24.66692665
San Francisco	2028	5.216474894	31.02295469	25.44619131	25.13442127
San Francisco	2029	5.315170495	31.57388558	25.84757399	25.57564819
San Francisco	2030	5.406734569	32.08088886	26.2457462	25.99088628
San Francisco Total		5.111927761	30.30240858	24.97982599	24.60006269
San Joaquin	2024	5.988219611	29.23435978	24.37865186	23.84769459
San Joaquin	2025	6.081552853	29.81623836	24.86736393	24.48641729
San Joaquin	2026	6.178751002	30.41974581	25.3709214	25.10751131
San Joaquin	2027	6.286265188	30.87475552	25.76163717	25.57586124
San Joaquin	2028	6.400424561	31.45202083	26.26339494	26.11816857
San Joaquin	2029	6.512522711	32.0026897	26.7548136	26.61989724
San Joaquin	2030	6.620764396	32.49252554	27.20505489	27.05856504
San Joaquin Total		6.293807148	30.86879505	25.74273085	25.55805159
San Luis Obispo	2024	5.739371392	29.73442545	24.20597478	23.75312656
San Luis Obispo	2025	5.827260057	30.37201451	24.56275956	24.29399648
San Luis Obispo	2026	5.917791101	31.02546101	24.93616274	24.8327443
San Luis Obispo	2027	6.0159529	31.67135676	25.32786287	25.36049002

San Luis Obispo	2028	6.119890099	32.29120463	25.72562311	25.87028865
San Luis Obispo	2029	6.224766922	32.87886122	26.13097903	26.35913276
San Luis Obispo	2030	6.32564239	33.42782433	26.54436819	26.82578059
San Luis Obispo Total		6.021762843	31.5818435	25.27084822	25.30772956
San Mateo	2024	5.271430946	30.59042448	26.02954509	25.46037933
San Mateo	2025	5.358704164	31.21805673	26.59500212	26.08776391
San Mateo	2026	5.445755289	31.82605583	27.14039736	26.66138081
San Mateo	2027	5.537906078	32.3783682	27.65529167	27.17103958
San Mateo	2028	5.634696225	32.89008483	28.13295558	27.62134798
San Mateo	2029	5.728712338	33.37205616	28.57855773	28.02127359
San Mateo	2030	5.82310755	33.82131918	28.98266043	28.37804164
San Mateo Total		5.536774707	32.20622623	27.5425824	27.06786444
Santa Barbara	2024	5.708290918	30.64957554	24.97278809	24.59487523
Santa Barbara	2025	5.783484532	31.28275004	25.3661703	25.16958686
Santa Barbara	2026	5.862245736	32.00828621	25.83007185	25.79276853
Santa Barbara	2027	5.947996747	32.65954306	26.26206776	26.35128546
Santa Barbara	2028	6.039744814	33.2882806	26.69798669	26.88888494
Santa Barbara	2029	6.131641096	33.89019229	27.14240283	27.40174617
Santa Barbara	2030	6.221608012	34.45968105	27.59358356	27.88964246
Santa Barbara Total		5.952190373	32.55575701	26.1898554	26.28998796
Santa Clara	2024	5.805508407	30.22548364	25.37003276	24.50687778
Santa Clara	2025	5.889000509	30.85418698	25.82552778	25.10392562
Santa Clara	2026	5.977023583	31.49990067	26.29135705	25.68598019
Santa Clara	2027	6.073118272	32.13316962	26.76264907	26.24051514
Santa Clara	2028	6.176697047	32.73792117	27.22689098	26.76147238
Santa Clara	2029	6.280851144	33.31016374	27.6850229	27.24922534
Santa Clara	2030	6.383996771	33.84547046	28.13212321	27.7055775
Santa Clara Total		6.079166314	32.03584279	26.68766752	26.15951051
Santa Cruz	2024	5.15921948	29.33673454	23.94644643	23.5057629
Santa Cruz	2025	5.214648344	29.92412001	24.26881392	24.03015642
Santa Cruz	2026	5.271503179	30.52797216	24.60744112	24.55510436
Santa Cruz	2027	5.334487532	31.12901329	24.9637043	25.07213245
Santa Cruz	2028	5.401937705	31.71321866	25.32788085	25.57652594
Santa Cruz	2029	5.465852755	32.27326561	25.70559206	26.06290517
Santa Cruz	2030	5.528126921	32.80428101	26.09356988	26.52708865
Santa Cruz Total		5.334236413	31.05796989	24.90639391	25.0154323
Shasta	2024	6.030290725	29.45975106	24.15603474	23.78135206
Shasta	2025	6.130266837	30.1042052	24.55392432	24.38771727
Shasta	2026	6.234553732	30.75832965	24.96744787	24.9825326
Shasta	2027	6.349486769	31.3967465	25.39934189	25.5550381
Shasta	2028	6.471950095	32.0012391	25.83611164	26.09559344
Shasta	2029	6.591844994	32.56909725	26.28013418	26.60336347
Shasta	2030	6.706160097	33.09626292	26.72660709	27.07758339
Shasta Total		6.355466233	31.30005237	25.32117776	25.47234139
Sierra	2024	5.815038435	27.13866502	21.89852411	21.63383695
Sierra	2025	5.903385558	27.70938154	22.26534514	22.15149633
Sierra	2026	6.00203424	28.29157261	22.63000622	22.6604656

Sierra	2027	6.093987009	28.85726835	23.00869998	23.14984562
Sierra	2028	6.183500397	29.39256858	23.39424599	23.61046769
Sierra	2029	6.272464643	29.89339533	23.79115201	24.04598192
Sierra	2030	6.361408385	30.35929915	24.18848178	24.45571616
Sierra Total		6.085608836	28.75099785	22.93114377	23.06731945
Siskiyou	2024	6.116810005	27.46086177	22.23876446	21.93779035
Siskiyou	2025	6.227474731	28.05250549	22.57103243	22.45732092
Siskiyou	2026	6.343012722	28.65627616	22.91612655	22.96889274
Siskiyou	2027	6.46915991	29.24517488	23.27916189	23.4622
Siskiyou	2028	6.603511453	29.80304163	23.64765577	23.93065876
Siskiyou	2029	6.733925463	30.32853288	24.02805075	24.37351622
Siskiyou	2030	6.856681023	30.81726248	24.41209905	24.79164201
Siskiyou Total		6.47398276	29.14558978	23.20792895	23.38763018
Solano-Sacramento	2024	6.091980963	29.63313247	24.73138119	24.14730675
Solano-Sacramento	2025	6.194976286	30.25190037	25.16800088	24.76633993
Solano-Sacramento	2026	6.302238638	30.89184381	25.61988895	25.37008279
Solano-Sacramento	2027	6.420551102	31.52602786	26.08121644	25.94423704
Solano-Sacramento	2028	6.547203329	32.13435747	26.54060357	26.48248637
Solano-Sacramento	2029	6.671006535	32.71153724	26.99921752	26.98578194
Solano-Sacramento	2030	6.788692927	33.25222182	27.45411331	27.45497282
Solano-Sacramento Total		6.42557015	31.44144025	26.00633121	25.86605877
Solano-San Francis	2024	5.922973927	29.57895608	24.70667067	23.84541132
Solano-San Francis	2025	6.00678706	30.1594088	25.12159731	24.45153863
Solano-San Francis	2026	6.094809106	30.76805782	25.55278685	25.05221068
Solano-San Francis	2027	6.193225589	31.38307388	26.00074988	25.63588539
Solano-San Francis	2028	6.300540131	31.9847658	26.45415509	26.19477104
Solano-San Francis	2029	6.407460183	32.56635312	26.91330755	26.72683777
Solano-San Francis	2030	6.512987018	33.12037733	27.37216183	27.23230143
Solano-San Francisco Total		6.201515067	31.31756609	25.93692076	25.57268038
Sonoma-North Coast	2024	5.987335944	29.60204039	23.98815926	23.89507096
Sonoma-North Coast	2025	6.073301603	30.22020026	24.38283061	24.46992985
Sonoma-North Coast	2026	6.166286689	30.84934748	24.79339094	25.04137406
Sonoma-North Coast	2027	6.268449983	31.46757713	25.23074365	25.59793844
Sonoma-North Coast	2028	6.377253756	32.06117243	25.68105507	26.13514955
Sonoma-North Coast	2029	6.484484842	32.62455758	26.14954138	26.65022767
Sonoma-North Coast	2030	6.587644098	33.15460831	26.62856247	27.142144
Sonoma-North Coast Total		6.272846079	31.39950461	25.13538567	25.51167315
Sonoma-San Francisco	2024	5.498995465	30.22361805	24.8876089	24.32682111
Sonoma-San Francisco	2025	5.566278896	30.84543893	25.26424392	24.89755776
Sonoma-San Francisco	2026	5.6393172	31.48019178	25.65844304	25.46182395
Sonoma-San Francisco	2027	5.717044277	32.10474509	26.07122308	26.00889275
Sonoma-San Francisco	2028	5.799974262	32.70360553	26.48842776	26.53328771
Sonoma-San Francisco	2029	5.883960082	33.27284833	26.91636472	27.03229074
Sonoma-San Francisco	2030	5.965839467	33.80845888	27.3484757	27.50543488
Sonoma-San Francisco Total		5.720128872	32.0255409	25.98855436	25.92069106
Stanislaus	2024	5.993105612	30.50439224	25.12955324	24.59145433
Stanislaus	2025	6.087320568	31.12531879	25.59747845	25.23537111

Stanislaus	2026	6.185531241	31.76864174	26.08424872	25.86913903
Stanislaus	2027	6.294017271	32.44991468	26.609297	26.50324912
Stanislaus	2028	6.409678416	33.07267196	27.11249541	27.07776816
Stanislaus	2029	6.523475403	33.66799011	27.61411604	27.61728173
Stanislaus	2030	6.633507797	34.2937139	28.16262614	28.17693508
Stanislaus Total		6.302276046	32.37744054	26.53484283	26.4343951
Sutter	2024	6.137035729	28.87761123	23.89368995	23.5500897
Sutter	2025	6.244436523	29.50043728	24.36871659	24.18885569
Sutter	2026	6.355534565	30.137589	24.8592299	24.81030645
Sutter	2027	6.477624487	30.72162113	25.32814545	25.36717415
Sutter	2028	6.607336041	31.37908197	25.87915645	25.97050112
Sutter	2029	6.732891116	31.94024611	26.37621775	26.4803488
Sutter	2030	6.851345774	32.46101001	26.85930573	26.95093735
Sutter Total		6.486876401	30.69592823	25.28920925	25.33910586
Tehama	2024	6.074464977	28.89730357	23.5500417	23.33334607
Tehama	2025	6.173624886	29.51941952	23.98023455	23.93591723
Tehama	2026	6.276829533	30.15458286	24.42576611	24.52645965
Tehama	2027	6.390673334	30.77658523	24.88527462	25.09159024
Tehama	2028	6.512683714	31.36844246	25.3467999	25.62407559
Tehama	2029	6.631704824	31.92518277	25.81595879	26.12260575
Tehama	2030	6.745344876	32.44392219	26.2794531	26.58791088
Tehama Total		6.395255649	30.69266317	24.80224287	25.01223534
Trinity	2024	6.037827137	25.81753402	20.79496692	20.64362622
Trinity	2025	6.137553953	26.36192032	21.1231212	21.14701565
Trinity	2026	6.241109137	26.91643272	21.46754545	21.64158944
Trinity	2027	6.353811489	27.45700182	21.82335792	22.11628582
Trinity	2028	6.474034109	27.9708196	22.18270718	22.56665344
Trinity	2029	6.591543413	28.45714146	22.55635485	22.99010316
Trinity	2030	6.704626533	28.9106984	22.93142227	23.38888622
Trinity Total		6.361065622	27.36159549	21.75242285	22.04318439
Tulare	2024	5.94314641	30.1427398	24.50709332	24.30762798
Tulare	2025	6.035943833	30.74239248	25.00093111	24.95309894
Tulare	2026	6.132879458	31.36067103	25.51183703	25.58550913
Tulare	2027	6.238450443	31.96300066	26.02753658	26.17842655
Tulare	2028	6.351301662	32.55883969	26.55469384	26.74271943
Tulare	2029	6.463447417	33.13115422	27.08179673	27.27063822
Tulare	2030	6.57070277	33.66673061	27.59150473	27.75532281
Tulare Total		6.243742056	31.9063752	25.95881355	26.11545321
Tuolumne	2024	5.206662668	28.3496188	22.8304966	22.47770104
Tuolumne	2025	5.255154642	29.00816602	23.12264552	22.96296695
Tuolumne	2026	5.310867169	29.67412285	23.42801182	23.45183517
Tuolumne	2027	5.365003781	30.32674155	23.75275478	23.93819616
Tuolumne	2028	5.420887528	30.94841404	24.08997981	24.41435975
Tuolumne	2029	5.477075041	31.53627509	24.44880257	24.87613686
Tuolumne	2030	5.538619906	32.08030867	24.82321004	25.32211937
Tuolumne Total		5.362581007	30.2460393	23.68348202	23.8757694
Ventura	2024	6.046170412	30.27027689	24.92851534	24.45842736

Ventura	2025	6.137415996	30.90991811	25.36850897	25.0853168
Ventura	2026	6.230544669	31.5704906	25.82287824	25.6977248
Ventura	2027	6.332014749	32.16277887	26.24020353	26.23137276
Ventura	2028	6.440108391	32.77233794	26.69439418	26.76930332
Ventura	2029	6.546783236	33.34711188	27.14727522	27.27229195
Ventura	2030	6.651616989	33.88257129	27.59778251	27.74219134
Ventura Total		6.336559304	32.07685292	26.18147417	26.14375458
Yolo	2024	5.879533368	29.25438182	24.21053622	23.65347639
Yolo	2025	5.962699545	29.88484288	24.5970522	24.24028834
Yolo	2026	6.050000745	30.53512979	25.00371768	24.82109533
Yolo	2027	6.144124893	31.13386115	25.39197021	25.3489667
Yolo	2028	6.24409027	31.81002319	25.87156053	25.93500319
Yolo	2029	6.34210445	32.38755063	26.30320639	26.43694592
Yolo	2030	6.437633272	32.92377474	26.73494259	26.90863597
Yolo Total		6.146899694	31.08820097	25.36851356	25.33463156
Yuba	2024	5.267392998	29.41189561	24.11121475	23.73269012
Yuba	2025	5.330806655	30.03080219	24.55273103	24.38834057
Yuba	2026	5.398878385	30.67133109	25.02063759	25.03818501
Yuba	2027	5.470158786	31.30974875	25.51268255	25.66809243
Yuba	2028	5.546625755	31.9273949	26.02008057	26.27071055
Yuba	2029	5.620725369	32.51162475	26.53201946	26.83230228
Yuba	2030	5.689543961	33.05985536	27.04314607	27.35649923
Yuba Total		5.469687255	31.26390825	25.4367141	25.60911346

LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS
11.15069539	11.01442784	41.43492728	20.28551275	5.226308609	7.646052081	5.598442527
11.33762397	11.19248674	41.63390306	20.81836944	5.252111002	7.706595443	5.686757846
11.50363475	11.35335682	41.82858618	21.33983768	5.275124171	7.766831515	5.778341903
11.6547164	11.50006695	42.00857896	21.83551067	5.296405237	7.825308011	5.875597994
11.78868818	11.63248975	42.17068296	22.29856884	5.315947656	7.882540602	5.971702237
11.91156303	11.75110157	42.31361834	22.72769177	5.334336793	7.938597655	6.071765998
12.02112254	11.85731485	42.45756664	23.12179287	5.351053602	7.994457088	6.17059644
11.61811891	11.46853572	41.97846982	21.77003388	5.29313127	7.819861925	5.861007833
11.23255322	11.52509025	40.63352037	20.19745958	5.848716221	5.974998232	4.86337921
11.36078265	11.61575093	40.77218555	20.65754642	5.865364441	6.076178643	4.903124064
11.47166118	11.7008318	40.91323829	21.12138961	5.882016052	6.157595544	4.946913495
11.57391011	11.78602765	41.079568	21.57579074	5.892879922	6.236809032	4.992014743
11.66462426	11.86613509	41.20749625	22.0171031	5.901903611	6.317044259	5.04150062
11.75080968	11.9437209	41.37523464	22.44050092	5.912280514	6.388771643	5.09176508
11.82761794	12.01825837	41.53395065	22.84417623	5.920223748	6.458323293	5.143263256
11.53692476	11.76450398	41.06203866	21.4928799	5.886358591	6.217058515	4.9825099
12.21159353	11.86854698	41.02472143	19.96118657	5.432671742	7.971356288	5.799659652
12.21955927	11.90646466	41.10834366	20.35818111	5.466978862	8.016429693	5.880801007
12.21772603	11.94299494	41.217171	20.77580158	5.504110311	8.060454858	5.970527818
12.20668187	11.9829563	41.32056643	21.2083442	5.538289285	8.101842851	6.067496085
12.1893116	12.02241376	41.45017971	21.64386332	5.573754068	8.141791246	6.164635579
12.17887913	12.0620893	41.56354889	22.08259231	5.610811777	8.181545524	6.26498998
12.17727041	12.10475227	41.68763949	22.51323413	5.646757275	8.219806526	6.371826335
12.20178526	11.97527692	41.32414036	21.15315648	5.527392343	8.097530608	6.056832842
12.29064367	11.72909621	39.91056659	19.33597355	5.490000904	7.766595164	5.690248434
12.35256616	11.78957748	40.02011529	19.76326934	5.521717459	7.842470685	5.793492097
12.4066664	11.85027713	40.14108826	20.20414493	5.551519723	7.9163455	5.899984208
12.45733881	11.90885844	40.2664318	20.6477122	5.580315771	7.988559415	6.01289121
12.50095155	11.9663693	40.40362243	21.08313791	5.60741909	8.059577752	6.126344808
12.54468069	12.02437296	40.54651089	21.50670843	5.63434078	8.128439361	6.246133061
12.58587919	12.0794841	40.70003536	21.91344407	5.65581571	8.1946511	6.360010498
12.43648558	11.89542574	40.27080104	20.57275786	5.569951851	7.982159228	5.995232226
12.31802717	12.06126758	38.90350633	18.92891997	5.442498451	7.763763381	5.466286083
12.32084142	12.09145879	38.91297912	19.28905063	5.478826886	7.81413739	5.550424808
12.30915926	12.12029605	38.93673564	19.66619695	5.514499139	7.862244816	5.628956197
12.30612508	12.15139841	38.99105648	20.05525138	5.551152205	7.911506575	5.708254522
12.28445748	12.18974894	39.04057362	20.44835185	5.587417387	7.957430284	5.787809816
12.27238036	12.22180066	39.11830254	20.8404617	5.623151402	8.00227206	5.867805432
12.25935045	12.25714652	39.18280551	21.22911063	5.66134835	8.04614678	5.942955674
12.29832897	12.1477385	39.00475109	19.99445377	5.538380032	7.905086946	5.69416465
12.01243224	11.46145948	41.00791073	19.1902418	5.399515272	7.527089663	4.890376241
12.10003359	11.54180454	41.18941413	19.59753734	5.427042913	7.605260534	4.946357461
12.17904056	11.62000577	41.35695368	20.01744391	5.451663754	7.680317173	5.003701733

12.25204373	11.69669845	41.52487161	20.44073657	5.474983145	7.751208114	5.062182684
12.31739619	11.77154395	41.67345513	20.85907798	5.496588438	7.820591542	5.1181671
12.38644209	11.84415343	41.81731298	21.26984854	5.517249394	7.888364114	5.172758659
12.45074976	11.9133449	41.95803723	21.66803569	5.536243689	7.957564723	5.225611337
12.22959637	11.68080604	41.49990898	20.37337655	5.468609014	7.742903767	5.047254685
11.41839418	11.35245825	41.2818123	19.93029844	5.304495116	7.58771332	5.508765021
11.56434375	11.48648979	41.47710417	20.39394856	5.328595534	7.633884715	5.592790513
11.69765899	11.60973208	41.67361205	20.86132716	5.349954963	7.679511694	5.677047276
11.81983163	11.72331713	41.86283821	21.32167456	5.369612007	7.724217499	5.764360883
11.9293059	11.82798363	42.03363485	21.76688637	5.387351125	7.767491717	5.85222786
12.0307736	11.92493295	42.18922515	22.19298082	5.404910368	7.810248994	5.939855977
12.12158971	12.01251573	42.34187188	22.5969487	5.419743449	7.852953781	6.02433414
11.78853533	11.70033701	41.83304291	21.2626558	5.364376263	7.720531927	5.753085446
12.09615737	11.90114339	37.54916174	18.319773	5.413480449	6.572971753	5.307728963
12.10119887	11.94533354	37.655337	18.65923549	5.44840626	6.659142657	5.384560216
12.10545499	11.98859576	37.75706401	19.01083689	5.481335014	6.740426322	5.466285286
12.113653	12.03240908	37.85793692	19.37084414	5.517099214	6.818950643	5.556147252
12.11426177	12.07601446	37.95081246	19.73498221	5.547378415	6.895164837	5.642423871
12.1062985	12.11780353	38.041529	20.09694315	5.577088427	6.970404602	5.727907947
12.1103084	12.16495022	38.17945178	20.45661136	5.606514855	7.043437383	5.812710015
12.10628059	12.02327299	37.84522455	19.32849378	5.503429323	6.805605581	5.537927958
12.02798597	12.04084421	38.86961852	19.49548941	5.451773461	7.935305461	6.4837454
12.04178806	12.08234955	38.96306301	19.91173348	5.482218751	7.966803694	6.571165286
12.05845478	12.12327851	39.07763243	20.3382329	5.511293117	8.001922318	6.666150486
12.07207225	12.16467	39.17091318	20.73942372	5.537790503	8.038278798	6.763096156
12.07960911	12.20614146	39.37100694	21.1923565	5.563260295	8.075172524	6.861620503
12.09150454	12.24745061	39.48158335	21.59187482	5.587908014	8.111725055	6.959867804
12.10106593	12.28850045	39.60771793	21.97346455	5.610694723	8.147980584	7.051168817
12.06550762	12.15629047	39.20759966	20.70757622	5.526873913	8.038718286	6.756909467
11.68957911	11.07730179	41.16085805	19.33645355	5.33488483	7.813216141	5.381593455
11.80840414	11.19771515	41.36805753	19.75746031	5.358660493	7.898678106	5.464694949
11.89125415	11.27169522	41.56554785	20.19183496	5.379523654	7.981249471	5.54915859
12.01854238	11.4254435	41.79336907	20.64494309	5.39776098	8.060761706	5.639904869
12.11069482	11.53081855	41.97622752	21.08051123	5.414397231	8.139219428	5.727460414
12.19874989	11.63189043	42.16057854	21.50750665	5.430528089	8.215250093	5.816164611
12.27789119	11.72674762	42.34308569	21.92431904	5.443975595	8.291731192	5.90271643
11.98620907	11.39237277	41.75705572	20.57519655	5.39206715	8.054540254	5.623877985
12.29024772	11.58156742	39.9886412	18.93356335	5.443961633	7.638427583	4.896372144
12.36061691	11.65355715	40.12871126	19.35052951	5.469578193	7.716947464	4.953924242
12.41937672	11.72208898	40.27555207	19.78024973	5.492392997	7.791390032	5.012226527
12.47809997	11.78969442	40.41718549	20.21233275	5.513204343	7.861752572	5.071838456
12.52882621	11.85530261	40.54661877	20.63865106	5.534570375	7.9292603	5.128837454
12.5826441	11.92631082	40.65896947	21.05457021	5.553171207	7.995524699	5.184818797
12.62861834	11.99006637	40.7664902	21.45455857	5.569435574	8.063731821	5.23894168
12.4572878	11.77488851	40.38845748	20.13293614	5.507482762	7.851874631	5.058020323
12.28904904	11.81372825	38.76007085	19.29199114	5.459992113	7.475942146	5.386957575
12.2859207	11.85225792	38.84950439	19.65542135	5.496447168	7.530700489	5.459079977

12.27339529	11.88934701	38.94426234	20.03081285	5.533246323	7.584970357	5.534825947
12.26369005	11.92665376	39.06589274	20.41326461	5.567649514	7.639492825	5.6169932
12.24814585	11.96548207	39.1725314	20.79531018	5.597646045	7.694351724	5.700988576
12.23790517	12.00469589	39.27596372	21.17403545	5.630556951	7.747846076	5.788418987
12.22523694	12.04257656	39.37978136	21.54704191	5.656085769	7.800969712	5.873358883
12.2629435	11.91881979	39.05207841	20.36851211	5.554180939	7.635279272	5.604247613
15.90245212	15.03651354	41.57040245	18.61540206	5.68172849	7.563395368	5.748777782
16.19764919	15.26463609	41.76586097	19.04109743	5.714964526	7.645191767	5.824033955
16.49245482	15.50267716	41.90609993	19.44680942	5.744264593	7.718279767	5.900868664
16.74855852	15.71518365	41.98873425	19.82048001	5.761861542	7.776127826	5.994058138
16.97232142	15.90027923	42.14767639	20.23407246	5.789062524	7.850137599	6.073279178
17.18718021	16.07174727	42.2948107	20.63605554	5.814859395	7.922589703	6.156735548
17.38307129	16.23174711	42.44251537	21.02003453	5.837223298	7.99464901	6.234813764
16.66732571	15.65457806	42.01621735	19.78777926	5.760518311	7.781588425	5.977950748
11.56896255	11.4983309	39.26228979	18.68044003	5.332858438	6.5121914	5.196385315
11.65961185	11.58782338	39.40181863	19.10381529	5.362675198	6.60060522	5.258808148
11.74158364	11.67330164	39.53954338	19.52934689	5.391109793	6.686134578	5.322738603
11.81721231	11.75540182	39.67851976	19.9492237	5.41611573	6.767045496	5.394133651
11.88873047	11.83419972	39.80210118	20.35587198	5.443776866	6.84594217	5.466613972
11.96098883	11.91049276	39.92609561	20.74902569	5.470392215	6.922580461	5.540468692
12.02575352	11.97929272	40.04456721	21.123255	5.496315659	6.997370505	5.612622045
11.79530773	11.73477129	39.65526662	19.87667727	5.409247543	6.754014036	5.383397486
11.82222018	11.56448621	40.91620357	19.86569702	5.17535894	7.706964199	5.294851082
11.91517808	11.62801819	41.07427223	20.31960242	5.205802065	7.807285038	5.369626537
11.97312226	11.63684367	41.23416491	20.78290513	5.236675136	7.905739796	5.445396614
12.08226298	11.75008363	41.43971915	21.25963152	5.26607918	8.005451848	5.524185944
12.15700706	11.81394236	41.62041998	21.71335121	5.295791896	8.108544222	5.603457302
12.22539301	11.87496704	41.80604055	22.15332946	5.326105649	8.211529419	5.688588621
12.28789239	11.93639906	41.99912287	22.57911667	5.353881717	8.315494801	5.77058395
12.05316071	11.73366394	41.42112805	21.19987183	5.257579349	8.008892869	5.516303859
11.68084882	11.04022148	41.55095985	19.24017621	5.348270441	7.76878159	5.243419541
11.79606083	11.13993863	41.76557337	19.64054002	5.371721649	7.864588266	5.316307155
11.8781127	11.1945121	41.96290929	20.0534782	5.393834841	7.959055078	5.392041394
12.00660231	11.33274788	42.14606191	20.46373074	5.413023761	8.051017641	5.470484652
12.09761951	11.42374135	42.32206179	20.877741	5.431372441	8.140873078	5.549767937
12.18531707	11.51325504	42.49206876	21.28523702	5.449391743	8.227322193	5.632111244
12.26630902	11.60027774	42.7032277	21.70689278	5.465049093	8.31207695	5.715750212
11.97364494	11.30375236	42.13240565	20.41476216	5.407367552	8.044855641	5.456254035
11.87518875	11.4029945	40.30147226	18.79029518	5.384796079	7.527687546	5.279691631
11.97999126	11.51350086	40.50123366	19.19338465	5.408743219	7.606395298	5.362212359
12.0449419	11.57079648	40.69611173	19.60825769	5.430249043	7.683828902	5.443491115
12.16481742	11.71771278	40.90227954	20.02996746	5.448093165	7.759776404	5.528062879
12.24474292	11.81096277	41.08973127	20.44546764	5.466113018	7.834018424	5.612677969
12.32037352	11.8990959	41.2645527	20.85434201	5.48243369	7.906969451	5.697618952
12.38839626	11.97916273	41.45143123	21.25423666	5.49419564	7.979253229	5.78501338
12.13360245	11.68821216	40.87946399	19.96706231	5.442323268	7.754779579	5.509912185
11.66769922	11.80390487	38.24553305	18.6079478	5.310820548	7.381581338	5.581413969

11.68774478	11.84752594	38.29573162	18.97935708	5.349408517	7.432287914	5.655465715
11.70284995	11.89623022	38.38942587	19.36171802	5.388091265	7.482511136	5.74187871
11.7164765	11.94664193	38.5111457	19.754973	5.426629079	7.530380959	5.827773932
11.72178731	11.99451005	38.59951992	20.14984193	5.468578039	7.577013739	5.911763567
11.73581982	12.04563648	38.69464734	20.54324213	5.509291631	7.619541396	5.994709096
11.75487401	12.09872231	38.825085	20.93048524	5.550322707	7.660577778	6.072115548
11.70958473	11.93605424	38.49742983	19.71114041	5.414854575	7.523104425	5.815998316
11.89015149	11.72580071	37.58505719	18.32321415	5.390877302	7.211761994	5.375997163
11.92149505	11.77917332	37.68439681	18.68552891	5.424864811	7.300441802	5.462245946
11.94469017	11.83163017	37.79991961	19.05111238	5.460653324	7.390751894	5.556604813
11.96638247	11.8840644	37.90251526	19.41883694	5.489343707	7.473878778	5.657009616
11.99143493	11.93784732	38.00784742	19.78176375	5.517629889	7.554719323	5.766282422
12.02946655	11.99115067	38.10238071	20.1394315	5.55112174	7.633614121	5.874609437
12.06153277	12.04643072	38.20596282	20.48982318	5.576863806	7.710395387	5.979503956
11.9653763	11.87263825	37.88829766	19.35718111	5.477919196	7.460710185	5.637271945
16.14868576	15.88887832	41.67099016	19.5125542	5.722457171	8.363982545	5.791555256
16.44524845	16.04892139	41.84351263	19.94908492	5.754848126	8.429158171	5.873382993
16.70988405	16.19151711	42.05682921	20.41539444	5.791739024	8.496149839	5.956249413
16.89048127	16.27686259	42.07296899	20.78160545	5.80575185	8.542046539	6.009540779
17.12410281	16.4148104	42.25200734	21.22541781	5.837223469	8.605521902	6.093378055
17.34524549	16.54467223	42.40731358	21.66222875	5.869104707	8.66881962	6.177835754
17.55402176	16.66852467	42.57669299	22.0858006	5.900135549	8.733664705	6.257660501
16.85510556	16.2776221	42.11665684	20.7439928	5.804795646	8.546869895	6.012605436
15.23621606	14.5825191	41.20922483	19.39023589	5.633322736	7.53435282	5.937939138
15.59325172	14.88130868	41.35243402	19.89705519	5.665561175	7.615254261	6.025530649
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11.86127379	11.64834951	40.67988979	21.47567251	5.308778028	7.94862629	6.550712808
11.95482296	11.73856456	40.82206651	21.88056442	5.330067621	8.029956723	6.662141638
11.62771052	11.42488786	40.36480951	20.52502065	5.254395517	7.764134778	6.299904376
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12.23868149	12.10995836	40.55222023	21.53187977	5.478272634	7.952324593	5.616981452

12.29385553	12.16436292	40.62244747	21.94405703	5.502670599	8.005652696	5.69286684
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12.16152946	12.04391919	40.49655166	21.0579723	5.444927132	7.884730252	5.517333069
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15.92353747	15.36704223	41.05666027	19.65145692	5.702134518	7.487742851	5.466451173
16.17748504	15.52579313	41.23368654	20.09638547	5.732990959	7.567076355	5.540608798
16.45514186	15.71804865	41.33149991	20.49521398	5.761208029	7.642451245	5.626961191
16.67484446	15.86199046	41.52393456	20.93553859	5.789693114	7.723485644	5.698938377
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16.54876167	15.49082691	42.44694164	21.17442458	5.819560043	8.47245657	6.345545108
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