Appendix A:
Air Quality, Greenhouse Gas, and Energy Supporting Information

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Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	2234 Lundy Place Industrial Warehouse Project
Construction Start Date	6/1/2026
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	31.0
Location	2234 Lundy Pl, San Jose, CA 95131, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1980
EDFZ	1
Electric Utility	Silicon Valley Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.30

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

General Heavy Industry	132	1000sqft	4.32	132,419	52,216	0.00	—	Lot Area = Bldg + Landscaping + Bioretention (includes off-site improvement area)
User Defined Industrial	132	User Defined Unit	0.00	0.00	0.00	0.00	—	Trucks for Light Industrial Bldg
Parking Lot	81.9	1000sqft	1.88	0.00	0.00	0.00	—	Auto Park & Drive and Truck Drive
Other Non-Asphalt Surfaces	33.5	1000sqft	0.77	0.00	0.00	0.00	—	Concrete Truck Park & Driveways & Walkways

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	70.8	70.8	32.4	31.0	0.07	1.28	20.5	21.8	1.18	10.3	11.5	—	8,831	8,831	0.56	0.88	11.5	9,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.51	1.24	10.8	15.1	0.03	0.39	0.61	1.00	0.36	0.15	0.51	—	3,406	3,406	0.14	0.12	0.08	3,446
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.33	4.25	7.27	8.67	0.02	0.26	1.65	1.91	0.24	0.61	0.85	—	2,218	2,218	0.11	0.12	0.93	2,258

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.79	0.78	1.33	1.58	< 0.005	0.05	0.30	0.35	0.04	0.11	0.16	—	367	367	0.02	0.02	0.15	374

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	4.06	3.26	32.4	31.0	0.07	1.28	20.5	21.8	1.18	10.3	11.5	—	8,831	8,831	0.56	0.88	11.5	9,119
2027	70.8	70.8	10.2	15.3	0.03	0.34	0.61	0.96	0.32	0.15	0.47	—	3,420	3,420	0.14	0.12	2.78	3,462
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.51	1.24	10.8	15.1	0.03	0.39	0.61	1.00	0.36	0.15	0.51	—	3,406	3,406	0.14	0.12	0.08	3,446
2027	1.45	1.20	10.2	15.0	0.03	0.34	0.61	0.96	0.32	0.15	0.47	—	3,386	3,386	0.14	0.12	0.07	3,426
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.96	0.77	7.27	8.67	0.02	0.26	1.65	1.91	0.24	0.61	0.85	—	2,218	2,218	0.11	0.12	0.93	2,258
2027	4.33	4.25	3.17	4.61	0.01	0.11	0.18	0.29	0.10	0.04	0.14	—	1,026	1,026	0.04	0.04	0.36	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.18	0.14	1.33	1.58	< 0.005	0.05	0.30	0.35	0.04	0.11	0.16	—	367	367	0.02	0.02	0.15	374
2027	0.79	0.78	0.58	0.84	< 0.005	0.02	0.03	0.05	0.02	0.01	0.03	—	170	170	0.01	0.01	0.06	172

2.4. Operations Emissions Compared Against Thresholds

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

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

Unmit.	6.32	5.65	10.3	24.3	0.12	0.17	6.19	6.37	0.16	1.61	1.78	147	13,229	13,376	15.5	1.57	70.3	14,300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.27	4.67	10.9	17.5	0.12	0.16	6.19	6.36	0.16	1.61	1.77	147	12,987	13,134	15.5	1.58	35.4	14,028
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.62	4.99	10.5	18.0	0.12	0.16	6.08	6.24	0.15	1.58	1.74	147	12,628	12,775	15.5	1.57	49.9	13,680
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.03	0.91	1.92	3.29	0.02	0.03	1.11	1.14	0.03	0.29	0.32	24.4	2,091	2,115	2.56	0.26	8.27	2,265

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.90	1.31	9.97	16.1	0.12	0.15	6.19	6.35	0.15	1.61	1.76	—	12,690	12,690	0.58	1.42	35.8	13,164
Area	4.25	4.18	0.05	5.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.7	23.7	< 0.005	< 0.005	—	23.8
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9.81	9.81	0.00	0.00	—	9.81
Water	—	—	—	—	—	—	—	—	—	—	—	58.7	1.29	60.0	6.02	0.14	—	253
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.84	0.00	—	310
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5
Stationary	0.16	0.16	0.29	2.51	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	504	504	0.02	< 0.005	0.00	505
Total	6.32	5.65	10.3	24.3	0.12	0.17	6.19	6.37	0.16	1.61	1.78	147	13,229	13,376	15.5	1.57	70.3	14,300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.87	1.28	10.7	14.9	0.12	0.15	6.19	6.35	0.15	1.61	1.76	—	12,472	12,472	0.60	1.43	0.93	12,915

Area	3.23	3.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9.81	9.81	0.00	0.00	—	9.81
Water	—	—	—	—	—	—	—	—	—	—	—	58.7	1.29	60.0	6.02	0.14	—	253
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.84	0.00	—	310
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5
Stationary	0.16	0.16	0.29	2.51	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	504	504	0.02	< 0.005	0.00	505
Total	5.27	4.67	10.9	17.5	0.12	0.16	6.19	6.36	0.16	1.61	1.77	147	12,987	13,134	15.5	1.58	35.4	14,028
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.86	1.26	10.4	14.7	0.12	0.15	6.08	6.24	0.15	1.58	1.73	—	12,502	12,502	0.59	1.43	15.5	12,957
Area	3.74	3.70	0.02	2.84	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.7	11.7	< 0.005	< 0.005	—	11.7
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9.81	9.81	0.00	0.00	—	9.81
Water	—	—	—	—	—	—	—	—	—	—	—	58.7	1.29	60.0	6.02	0.14	—	253
Waste	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.84	0.00	—	310
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5
Stationary	0.03	0.03	0.06	0.52	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	104	104	< 0.005	< 0.005	0.00	104
Total	5.62	4.99	10.5	18.0	0.12	0.16	6.08	6.24	0.15	1.58	1.74	147	12,628	12,775	15.5	1.57	49.9	13,680
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.34	0.23	1.90	2.68	0.02	0.03	1.11	1.14	0.03	0.29	0.32	—	2,070	2,070	0.10	0.24	2.56	2,145
Area	0.68	0.67	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.93	1.93	< 0.005	< 0.005	—	1.94
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1.62	1.62	0.00	0.00	—	1.62
Water	—	—	—	—	—	—	—	—	—	—	—	9.71	0.21	9.93	1.00	0.02	—	41.9
Waste	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.71	5.71
Stationary	0.01	0.01	0.01	0.09	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	17.1	17.1	< 0.005	< 0.005	0.00	17.2
Total	1.03	0.91	1.92	3.29	0.02	0.03	1.11	1.14	0.03	0.29	0.32	24.4	2,091	2,115	2.56	0.26	8.27	2,265

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	—	—	—	—	—	—	6.60	6.60	—	1.00	1.00	—	—	—	—	—	—	—
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	0.15	0.13	1.13	1.04	< 0.005	0.05	—	0.05	0.04	—	0.04	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.36	0.36	—	0.05	0.05	—	—	—	—	—	—	—
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	0.02	0.21	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
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	0.54	0.11	6.49	3.19	0.03	0.07	1.39	1.46	0.07	0.38	0.45	—	5,279	5,279	0.42	0.85	11.0	5,553
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	—	6.47	6.47	< 0.005	< 0.005	0.01	6.57
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	0.03	0.01	0.37	0.18	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	289	289	0.02	0.05	0.26	304
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.07	1.07	< 0.005	< 0.005	< 0.005	1.09
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	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.9	47.9	< 0.005	0.01	0.04	50.3

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	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.80	0.79	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.54	0.54	—	0.28	0.28	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—

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	0.06	0.06	0.04	0.67	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	147	147	< 0.005	0.01	0.54	149
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	0.53	228
Hauling	0.24	0.05	2.92	1.44	0.02	0.03	0.63	0.66	0.03	0.17	0.20	—	2,373	2,373	0.19	0.38	4.94	2,496
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	—	3.78	3.78	< 0.005	< 0.005	0.01	3.83
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.96	5.96	< 0.005	< 0.005	0.01	6.23
Hauling	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	65.0	65.0	0.01	0.01	0.06	68.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.63
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.03
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	11.3

3.5. Grading (2026) - Unmitigated

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

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

Off-Road Equipment	1.96	1.65	15.0	17.4	0.03	0.65	—	0.65	0.59	—	0.59	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—	—
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	0.11	0.09	0.82	0.96	< 0.005	0.04	—	0.04	0.03	—	0.03	—	162	162	0.01	< 0.005	—	163
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.19	0.19	—	—	—	—	—	—	—
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	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.8	26.8	< 0.005	< 0.005	—	26.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.57	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	0.18	0.04	2.16	1.06	0.01	0.02	0.46	0.49	0.02	0.13	0.15	—	1,755	1,755	0.14	0.28	3.66	1,846
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	—	6.47	6.47	< 0.005	< 0.005	0.01	6.57
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	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	0.01	0.02	0.09	101
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.07	1.07	< 0.005	< 0.005	< 0.005	1.09
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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.9	15.9	< 0.005	< 0.005	0.01	16.7

3.7. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
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	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
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	0.47	0.39	3.61	4.75	0.01	0.14	—	0.14	0.13	—	0.13	—	878	878	0.04	0.01	—	881
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	0.09	0.07	0.66	0.87	< 0.005	0.03	—	0.03	0.02	—	0.02	—	145	145	0.01	< 0.005	—	146
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	0.18	0.18	0.12	2.12	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	468	468	0.01	0.02	1.71	475
Vendor	0.05	0.02	0.71	0.35	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	575	575	0.03	0.08	1.40	603
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	0.17	0.16	0.15	1.81	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	433	433	0.01	0.02	0.04	439

Vendor	0.05	0.02	0.76	0.35	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	576	576	0.03	0.08	0.04	602
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	0.06	0.05	0.66	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	160	160	< 0.005	0.01	0.27	163
Vendor	0.02	0.01	0.27	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	211	211	0.01	0.03	0.22	221
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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.6	26.6	< 0.005	< 0.005	0.04	26.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.9	34.9	< 0.005	0.01	0.04	36.5
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

3.9. 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	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
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	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405

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	0.32	0.27	2.47	3.40	0.01	0.09	—	0.09	0.08	—	0.08	—	630	630	0.03	0.01	—	633
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	0.06	0.05	0.45	0.62	< 0.005	0.02	—	0.02	0.01	—	0.01	—	104	104	< 0.005	< 0.005	—	105
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	0.17	0.15	0.12	1.98	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	459	459	0.01	0.02	1.54	466
Vendor	0.05	0.02	0.68	0.34	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	564	564	0.03	0.08	1.24	591
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	0.17	0.15	0.14	1.69	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	425	425	0.01	0.02	0.04	431
Vendor	0.05	0.02	0.72	0.35	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	564	564	0.03	0.08	0.03	590
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	0.04	0.04	0.04	0.44	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	113	113	< 0.005	< 0.005	0.17	115
Vendor	0.01	< 0.005	0.18	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	148	148	0.01	0.02	0.14	155

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	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	18.7	18.7	< 0.005	< 0.005	0.03	19.0
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.6	24.6	< 0.005	< 0.005	0.02	25.7
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. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.38	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	124	124	< 0.005	< 0.005	0.42	126
Vendor	0.07	0.02	0.86	0.47	< 0.005	0.01	0.16	0.16	0.01	0.04	0.05	—	595	595	0.05	0.09	1.13	625
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	0.01	0.01	0.00	< 0.005	< 0.005	—	6.35	6.35	< 0.005	< 0.005	0.01	6.45
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.6	32.6	< 0.005	0.01	0.03	34.2
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	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.07
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.40	5.40	< 0.005	< 0.005	< 0.005	5.67
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. Architectural Coating (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	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	70.7	70.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	3.87	3.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.71	0.71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.03	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	91.8	91.8	< 0.005	< 0.005	0.31	93.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	—	4.71	4.71	< 0.005	< 0.005	0.01	4.78
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	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	1.08	1.02	0.60	10.9	0.03	0.01	3.16	3.18	0.01	0.80	0.81	—	3,048	3,048	0.08	0.07	9.56	3,081
User Defined Industrial	0.82	0.29	9.37	5.17	0.09	0.14	3.03	3.17	0.13	0.81	0.95	—	9,642	9,642	0.50	1.35	26.3	10,083
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.90	1.31	9.97	16.1	0.12	0.15	6.19	6.35	0.15	1.61	1.76	—	12,690	12,690	0.58	1.42	35.8	13,164
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	1.06	0.99	0.76	9.80	0.03	0.01	3.16	3.18	0.01	0.80	0.81	—	2,829	2,829	0.10	0.08	0.25	2,856
User Defined Industrial	0.81	0.28	9.90	5.13	0.09	0.14	3.03	3.17	0.13	0.81	0.95	—	9,643	9,643	0.50	1.35	0.68	10,059
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.87	1.28	10.7	14.9	0.12	0.15	6.19	6.35	0.15	1.61	1.76	—	12,472	12,472	0.60	1.43	0.93	12,915
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.19	0.18	0.13	1.74	0.01	< 0.005	0.57	0.57	< 0.005	0.14	0.15	—	473	473	0.02	0.01	0.68	478
User Defined Industrial	0.15	0.05	1.78	0.94	0.02	0.03	0.54	0.57	0.02	0.15	0.17	—	1,596	1,596	0.08	0.22	1.88	1,667

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.34	0.23	1.90	2.68	0.02	0.03	1.11	1.14	0.03	0.29	0.32	—	2,070	2,070	0.10	0.24	2.56	2,145

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	9.35	9.35	0.00	0.00	—	9.35
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46	0.00	0.00	—	0.46
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.81	9.81	0.00	0.00	—	9.81
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	9.35	9.35	0.00	0.00	—	9.35

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46	0.00	0.00	—	0.46
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.81	9.81	0.00	0.00	—	9.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	1.55	1.55	0.00	0.00	—	1.55
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08	0.00	0.00	—	0.08
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1.62	1.62	0.00	0.00	—	1.62

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.84	2.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.39	0.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.02	0.95	0.05	5.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.7	23.7	< 0.005	< 0.005	—	23.8
Total	4.25	4.18	0.05	5.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.7	23.7	< 0.005	< 0.005	—	23.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.84	2.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.39	0.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	3.23	3.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.09	0.09	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.93	1.93	< 0.005	< 0.005	—	1.94
Total	0.68	0.67	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.93	1.93	< 0.005	< 0.005	—	1.94

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	58.7	1.29	60.0	6.02	0.14	—	253
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	58.7	1.29	60.0	6.02	0.14	—	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	58.7	1.29	60.0	6.02	0.14	—	253
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	58.7	1.29	60.0	6.02	0.14	—	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	9.71	0.21	9.93	1.00	0.02	—	41.9
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.71	0.21	9.93	1.00	0.02	—	41.9

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.84	0.00	—	310
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.84	0.00	—	310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.84	0.00	—	310
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.5	0.00	88.5	8.84	0.00	—	310
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.7	0.00	14.7	1.46	0.00	—	51.3

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.71	5.71

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.71	5.71

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Emergency Generator	0.16	0.16	0.29	2.51	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	504	504	0.02	< 0.005	0.00	505
Total	0.16	0.16	0.29	2.51	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	504	504	0.02	< 0.005	0.00	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.16	0.16	0.29	2.51	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	504	504	0.02	< 0.005	0.00	505
Total	0.16	0.16	0.29	2.51	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	504	504	0.02	< 0.005	0.00	505
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.01	0.09	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	17.1	17.1	< 0.005	< 0.005	0.00	17.2
Total	0.01	0.01	0.01	0.09	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	17.1	17.1	< 0.005	< 0.005	0.00	17.2

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/1/2026	6/23/2026	6.00	20.0	Demolition of 130,752 SF Office Bldg
Site Preparation	Site Preparation	6/24/2026	7/4/2026	6.00	10.0	Includes import of base rock for pavement
Grading	Grading	7/6/2026	7/28/2026	6.00	20.0	Includes import of subgrade fill
Building Construction	Building Construction	7/29/2026	4/22/2027	6.00	230	—
Paving	Paving	4/23/2027	5/15/2027	6.00	20.0	Includes On- and Off-Site Paving and Concrete Paving
Architectural Coating	Architectural Coating	5/17/2027	6/8/2027	6.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	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

5.3. 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	75.2	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	8.20	8.40	HHDT,MHDT
Site Preparation	Hauling	33.8	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	25.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	55.6	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	21.7	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	20.0	8.40	HHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.1	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

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	198,629	66,210	6,923

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	130,752	—
Site Preparation	2,700	0.00	15.0	0.00	—
Grading	4,000	0.00	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	2.65

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Heavy Industry	0.00	0%
User Defined Industrial	0.00	0%
Parking Lot	1.88	100%
Other Non-Asphalt Surfaces	0.77	0%

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	2.34	0.00	0.00
2027	0.00	2.34	0.00	0.00

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Heavy Industry	514	514	514	187,532	4,534	4,534	4,534	1,654,785
User Defined Industrial	79.5	79.5	79.5	29,000	3,456	3,456	3,456	1,261,490
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	198,629	66,210	6,923

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	1,457,688	2.34	0.0000	0.0000	0.00
User Defined Industrial	0.00	2.34	0.0000	0.0000	0.00
Parking Lot	71,778	2.34	0.0000	0.0000	0.00
Other Non-Asphalt Surfaces	0.00	2.34	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	30,621,894	558,211
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	164	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	2.00	150	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

8. User Changes to Default Data

Screen	Justification
Land Use	Lot Acreage = Bldg + Landscape + Bioretention ; Asphalt and Concrete included separately.
Construction: Construction Phases	Monday - Saturday Construction ; Default Phase Lengths from CalEEMod
Construction: Trips and VMT	Additional Vendor Trips to Site Preparation for Removal of Trees Additional HHDT Vendor Trips to Paving for Asphalt Paving and Concrete for Truck Parking/Roads and Walks
Operations: Vehicle Data	CalEEMod automatically specifies Heavy Industrial for Bldgs > 50,000 SF. Land Use is General Light Industrial Overall Vehicle Trips - Based on ITE Code 110 General Light Industrial (4.87 trips/ksf) with a 8 Percent Location Reduction Truck Trips - Based on ITE Code 150 Warehousing Truck Fleet Mix based on Fontana Truck Study for Light Warehouse, using EMFAC categories. See CalEEMod Supporting Calculations
Operations: Fleet Mix	Project modeled for Passenger Vehicles and Trucks separately to account for longer truck trip lengths. Average truck Trip Length of 43.5 miles based on potential routes Truck percentages for Light Warehouse as per the Fontana Truck Study.
Operations: Energy Use	Calculational Method is from Measure E-15 of the CAPCOA Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity
Characteristics: Utility Information	Energy Provider for San Jose - CalEEMod defaults for this provider
Operations: Emergency Generators and Fire Pumps	Emergency Fire Pump Annual Emissions are based on an annual limit (50 hours/year) for testing and maintenance. Daily hours based on time for 2-hour load test.
Operations: Generators + Pumps EF	Tier 4 Emission factors as per BAAQMD BACT Requirements 50 hours for permit testing and maintenance hours 100 hours for emergency operational hours as per BAAQMD CEQA Guidance

2334 Lundy Place Warehouse Industrial Project

Asphalt and Concrete Paving Construction Trips

Asphalt Paved Area	Asphalt Paved Area (sf)	Asphalt volume (cubic feet)	Asphalt Volume (cy)	Capacity per vendor truck (cy per truck)	One Way Trips Total	Days in Paving Phase	One Way Vendor Trips Per Day (Asphalt)
	81,938	40969	1,517	16	190	20.00	9

Concrete Paved Area	Concrete Paved Area (sf)	Concrete volume (cubic feet)	Concrete Volume (cy)	Capacity per concrete truck (cy per truck)	One Way Trips Total	Days in Paving Phase	One Way Vendor Trips Per Day (Concrete)
	33,452	11151	413	8	103	20.00	10

Notes:

Total One-Way Paving Phase Vendor Trips	20

1. Assumptions: Asphalt paved areas includes driveways
2. Assumptions: Asphalt volume (cubic feet) assumes 6 inch pavement
3. Assumptions: Concrete volume (cubic feet) assumes 4 inch pavement

=

2334 Lundy Place Warehouse Industrial Project

Demolition Debris Calculations

Description	Area (sq ft)	height/depth (ft)	Volume (ft^3)	Demolition Waste Fraction	Demolition Volume (ft^3)	Demolition Waste Density (tons/cy)	Demolition Weight (tons)
Buildings	130,752	10	1,307,520	0.25	326,880	0.50	6,053
Pavement	0	0.5	-	1	-	2.025	-
					Totals		**6,053**

Notes:

1. Assumptions: Building demolition estimates are based on methods used in CalEEMod (CAPCOA, 2022), based on 1 story building , assume 10 ft per floor where 1 square ft floor area = 10 cubic ft (ft^3) of building volume, and 1 ft^3 of building volume = 0.25 ft^3 of waste. This approach can be used to estimate demolition for multiple story buildings. It also assumes 1 cubic yard (cy) building waste = 0.5 ton weight

2. Assumptions: 1 cubic yard of asphalt = 2.025 tons or 4050 lbs.

3. Source: ICF in collaboration with Sacramento Metropolitan Air Quality Management District, Fehr & Peers, STI and Ramboll. 2022. CalEEMod Appendix C Emission Calculation Details for CalEEMod. April.

2334 Lundy Place Warehouse Industrial Project

Site Preparation - Tree Removal Haul Trips

Number of Trees to be Removed	Volume Factor (cy/tree)	Volume Tree Removal (c/y)	Capacity Per Vendor Truck (c/y)	Truckloads Required	Trips (2 per truck load)	Days in Site Prep Phase	One Way Vendor Trips per Day
152.00	2.67	405.33	10.00	40.53	81.07	10.00	8.11
					Totals		**8**

Notes:

1. Source: Federal Emergency Management Agency (FEMA). 2007. FEMA - Bulletin 325, Public Assistance Debris Management Guide, July.
2. Assumptions: 15 trees, 8 inches in diameter = 40 cy (average)

2234 Lundy Place Industrial Warehouse Project

Project Fleet Mix Adjustments

Santa Clara

2027

Vehicle Category	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS	Total
Default Region Fleet %	**0.76%**	52.26%	3.82%	23.43%	2.36%	0.59%	2.20%	13.16%	0.24%	0.95%	0.11%	0.07%	0.04%	**100%**

Trucks Only

CALEEMOD Adjustment

Passenger Cars Only	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS	TOTAL
Include Category?	N	Y	Y	Y	N	N	N	Y	N	N	N	N	N	
Adjusted Vehicle Fleet Mix		56.40%	4.12%	25.28%				14.20%						100%

Trucks (2-Axle)	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS	TOTAL
Include Category?	N	N	N	N	Y	Y	N	N	N	N	N	N	N	
Adjusted Vehicle Fleet Mix					79.96%	20.04%								100%

(Apportionment of 2-Axle Vehicles)

2234 Lundy Place Warehouse Industrial Project

All-Electric Measure Electricity Adjustment to Replace Natural Gas Usage

CEC Electricity Demand Forecast Zone (EDFZ) **1**

Building Type / LandUse	Amount	Units	CalEEmod DEFAULT Electricity Usage kWhr/yr			Electric End Use per Unit (DU or KSF)				Additional Energy for Replaced End Uses kWhr/yr (per Unit)			ALL Electric Project REVISED Electricity KWhr/Year		
			Total	Subject to Title 24	Not Subject to Title 24	Water Heater	Primary Heat	Cooking	Dryer	TOTAL	Title 24	Non-Title 24	Total CalEEMod Value	Subject to Title 24	Not Subject to Title 24
General Heavy Industry	132.419	1,000 sqft	1,444,711	638,724	805,987	52	40	6	0	98	92	6	1,457,688	650,907	806,781
Parking Lot	81.938	1,000 sqft	71,778	71,778	0	0	0	0	0	0	0	0	71,778	71,778	0

Calculational Method is from Measure E-15 of the CAPCOA Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity
Emission Factors are From Data Tables E=15.2 from Appendix C of the Handbook

Notes:

1. Source: CAPCOA, 2021. Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity.

2. Source: CAPCOA. 2021. Appendix C : Emission Factors and Data Tables from Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity.

' Place Industrial Warehouse Project

ıeters for Construction HRA

ate Matter Emission Sources

Modeled Source	Location Description	AERMOD Source Type	Size		Initial Source Release Parameters (m) Release Height	Initial Lateral Dimension	Initial Vertical Dimension	Emissions[4] (lb/hr)	AERMOD Source Emission Rate	
Site - Off-Road Equipment Diesel Exhaust[1]	Project Site - Construction Area	Area	25804.4	m2	5	—	1.4	0.0510	2.5E-07	g/m2-sec
Roadway 1 - On-Road Diesel Exhaust[2,3]	Truck Route - Trade Zone Blvd	Line-Volume	833.8	meters	3.40	12.09	3.16	7.0E-05	8.8E-06	g/s
Roadway 2- On-Road Diesel Exhaust[2,4]	Truck Route - Lundy Place	Line-Volume	176.5	meters	3.40	12.09	3.16	3.4E-05	4.2E-06	g/s

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.

Variable Emission Factors: ALL Sources

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
Saturday						
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
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

' Place Industrial Warehouse Project

ıeters for Construction HRA

ɛ Matter (PM2.5) Emission Sources

Modeled Source	Location Description	AERMOD Source Type	Size		Initial Source Release Parameters (m) Release Height	Initial Lateral Dimension	Initial Vertical Dimension	Emissions[4] (lb/hr)	AERMOD Source Emission Rate	
Site - Off-Road Equipment PM2.5[1]	Project Site - Construction Area	Area	25804.4	m2	5	—	1.4	0.0778	3.8E-07	g/m2-sec
Roadway 1 -PM2.5 [2,3]	Truck Route - Trade Zone Blvd	Line-Volume	833.8	meters	3.40	12.09	3.16	6.1E-04	7.7E-05	g/s
Roadway 2 -PM2.5 [2,4]	Truck Route - Lundy Place	Line-Volume	176.5	meters	3.40	12.09	3.16	2.9E-04	3.7E-05	g/s

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.

Variable Emission Factors: ALL Sources

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
Saturday							
	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
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

2234 Lundy Place Industrial Warehouse Project

Health Risk Assessment Inputs

DPM Emissions for AERMOD Inputs - Average Tier Equipment

Net Work Days	320
Net Construction Years	1.02
Total Working Hours	2,560

Construction Year	On-site Construction Activity	On-site PM10E (lbs)	Off-Site PM10E (lbs)	Off-Site PM10E(lbs)		
				Worker	Vendor	Haul
2026	Demolition	16.86	1.33	-	-	1.33
2026	Site Preparation	12.43	0.33	-	0.03	0.30
2026	Grading	12.92	0.44	-	-	0.44
2026	Building Construction	40.57	1.07		1.07	-
2027	Building Construction	41.54	0.77	-	0.77	-
2027	Paving	5.96	0.15	-	0.15	-
2027	Architectural Coating	0.38	0.00	-	-	-
Total PM Exhaust (On-site)		**130.67**	**4.09**	-	2.03	2.065

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

CalEEMod Distance (miles)	11.7	8.4	20
Total Roadways Included within 1,000 ft	0.77	0.77	0.77
Roadway Emissions included	7%	9%	4%

	On-site Construction	Offsite Roadway	Off-Site Diesel PM10E (lbs) within 1,000 ft Roadways		
			Worker	Vendor	Haul
Modeled Emissions (lbs)	**130.67**	**0.265**	-	0.19	0.08
Hourly Emissions (lb/hr)	0.0510	0.00010	0.00E+00	7.23E-05	3.10E-05

Source	**percentage**	**Modeling Inputs**	
Site Emissions	100%	5.10E-02	lb/hr
Roadway 1 Emissions	67%	7.0E-05	lb/hr
Roadway 2 Emissions	33%	3.4E-05	lb/hr

2234 Lundy Place Industrial Warehouse Project

Health Risk Assessment Inputs

Fine Particulate Matter (PM2.5) Emissions for AERMOD Inputs - Average Tier Equipment

Net Work Days	320
Net Construction Years	1.0
Total Working Hours	2,560

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	28.30	9.42	0.57	-	8.85
2026	Site Preparation	50.84	2.51	0.33	0.19	1.99
2026	Grading	38.62	3.51	0.57	-	2.94
2026	Building Construction	37.32	20.74	14.10	6.64	-
2027	Building Construction	38.22	14.89	10.13	4.77	-
2027	Paving	5.49	1.56	0.57	0.99	-
2027	Architectural Coating	0.35	0.42	0.42	-	-
	Total PM2.5	**199.14**	**53.06**	26.69	12.58	13.788

Note: PM2.5T = total PM2.5 which includes off-road eqt exhaust, fugitive dust, diesel exhaust from on-road vehicles, as well as reentrailed road dust, brake wear and tire wear. Max Year = 6/1/2026 - 5/31/2027. Include all emissions in max year

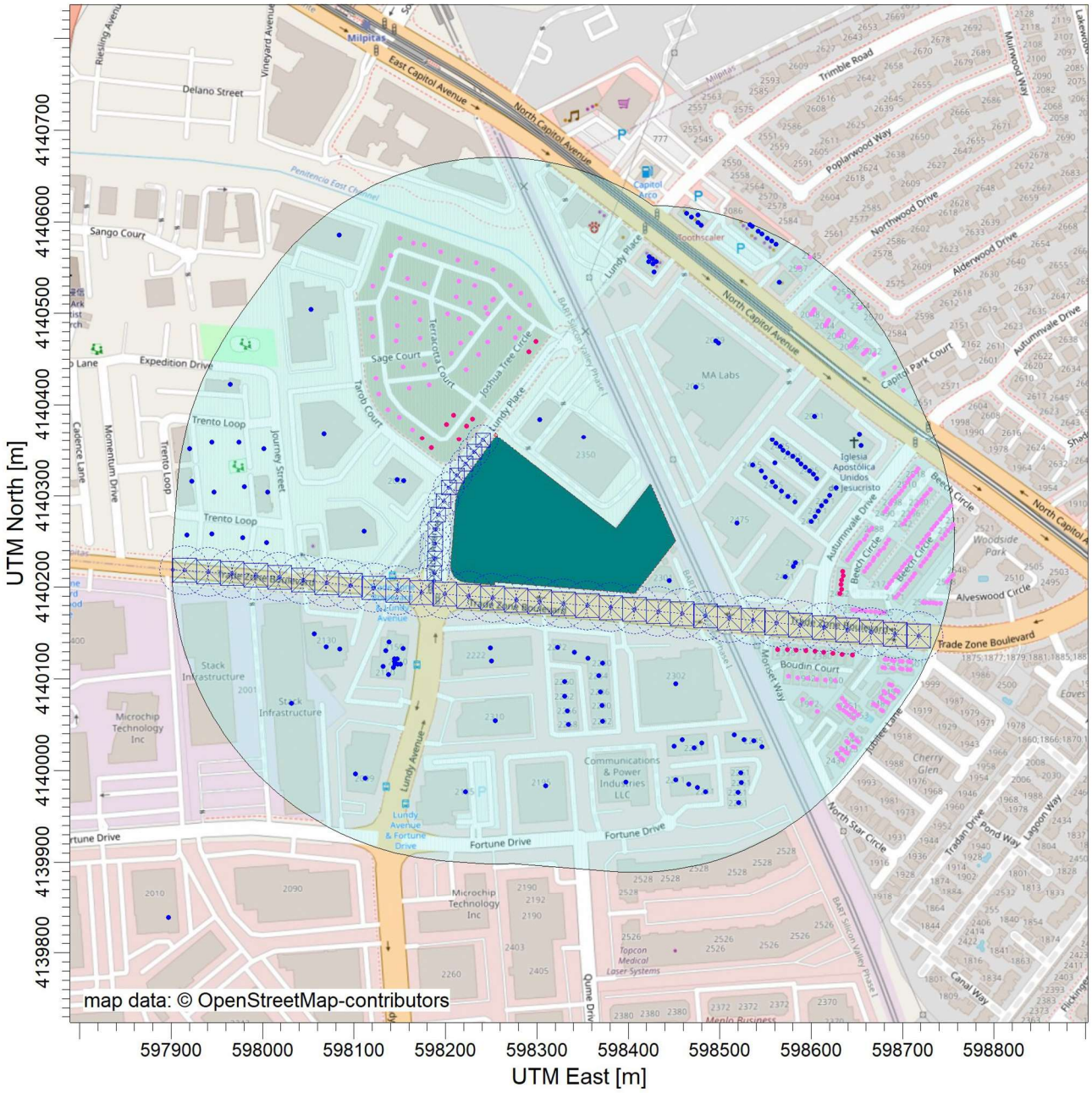
CalEEMod Distance (miles)	11.7	8.4	20
Roadways Included within 1,000 ft	0.52	0.52	0.52
Roadway Emissions included	4%	6%	3%

	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)	**199.14**	**2.315**	1.18	0.78	0.36
Hourly Emissions (lb/hr)	0.0778	0.00090	4.62E-04	3.03E-04	1.40E-04

Source	percentage	Model Inputs	
Site Emissions	100%	7.8E-02	lb/hr
Roadway 1 Emissions	67%	6.1E-04	lb/hr
Roadway 2 Emissions	33%	2.9E-04	lb/hr

PROJECT TITLE:

2334 Lundy Place Industrial Warehouse Project
Source - Receptor Locations



SITE LEGEND:

Site Boundary ------

Site

RECEPTOR LEGEND:

Residential

Nearby Residential

Non-Residential

SOURCES / RECEPTORS:

6 / 411

SCALE

1:7,000

0 0.2 km

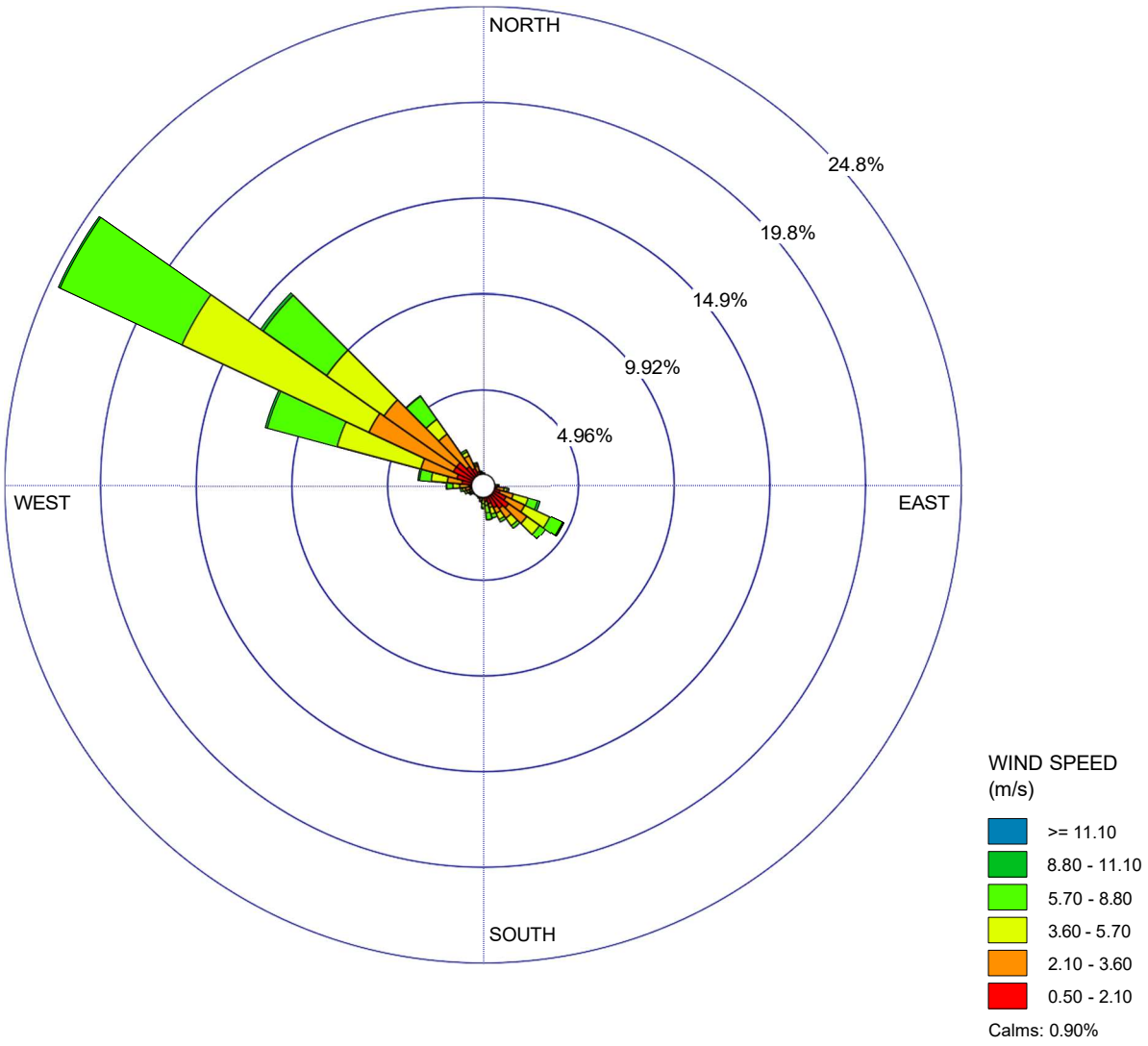
FCS
An ADEC Innovation

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

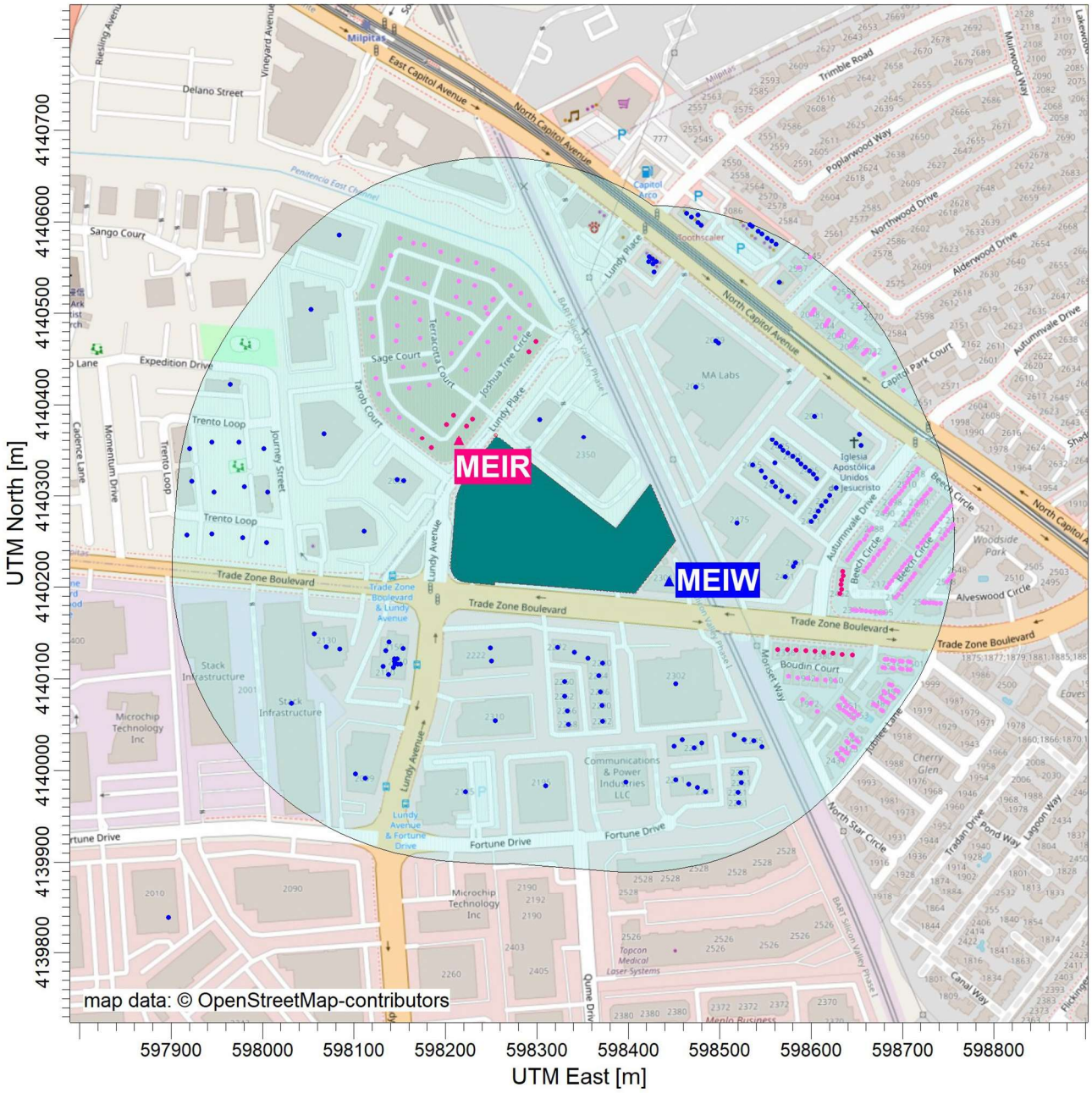
How to Read a Wind Rose Diagram

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:

2334 Lundy Place Industrial Warehouse Project
Maximum Exposed Individual Receptors



SITE LEGEND:

Site Boundary ------

Site

RECEPTOR LEGEND:

Residential

Nearby Residential

Non-Residential

SENSITIVE RECEPTOR LEGEND:

Maximally Exposed Individual Resident (MEIR)

Maximally Exposed Individual Worker (MEIR)

SCALE: 1:7,000

0 0.2 km

FCS
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AERMOD View - Lakes Environmental Software

Control Pathway

AERMOD

Dispersion Options

Titles

2234 Lundy Place Industrial Warehouse Project
Construction HRA

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

Averaging Time Options

Hours

☐ 1	☐ 2	☐ 3	☐ 4	☐ 6	☐ 8	☐ 12	☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Default half-life of 4 hours will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

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 (Site DPM)

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]
15.59	5.00	2.49E-7	1.40	14	598255.27	4140366.80
		2.49E-7			598248.28	4140356.82
		2.49E-7			598220.15	4140317.88
		2.49E-7			598211.00	4140298.16
		2.49E-7			598208.23	4140250.57
		2.49E-7			598204.75	4140222.66
		2.49E-7			598209.77	4140209.48
		2.49E-7			598225.26	4140205.04
		2.49E-7			598254.16	4140202.54
		2.49E-7			598253.33	4140206.34
		2.49E-7			598408.21	4140193.16
		2.49E-7			598452.12	4140250.62
		2.49E-7			598424.71	4140312.93
		2.49E-7			598386.06	4140263.48

Source Pathway - Source Inputs

AERMOD

Source Type: AREA POLY
Source: SITE_PM25 (Site PM25)

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]
15.59	5.00	3.81E-7	1.40	14	598255.27	4140366.80
		3.81E-7			598248.28	4140356.82
		3.81E-7			598220.15	4140317.88
		3.81E-7			598211.00	4140298.16
		3.81E-7			598208.23	4140250.57
		3.81E-7			598204.75	4140222.66
		3.81E-7			598209.77	4140209.48
		3.81E-7			598225.26	4140205.04
		3.81E-7			598254.16	4140202.54
		3.81E-7			598253.33	4140206.34
		3.81E-7			598408.21	4140193.16
		3.81E-7			598452.12	4140250.62
		3.81E-7			598424.71	4140312.93
		3.81E-7			598386.06	4140263.48

Source Pathway - Source Inputs

AERMOD

Line Volume Sources

Source Type: LINE VOLUME
Source: ROAD1

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]
26.00	8.82E-6	Surface-Based	597901.85	4140219.34	13.58	3.40
			598008.34	4140212.25	14.36	3.40
			598155.91	4140195.55	15.31	3.40
			598206.95	4140191.84	15.90	3.40
			598416.70	4140175.13	17.32	3.40
			598535.49	4140163.99	18.78	3.40
			598674.70	4140150.07	19.34	3.40
			598712.75	4140147.29	19.70	3.40
			598732.24	4140145.43	19.98	3.40

Source Type: LINE VOLUME
Source: ROAD1_PM25

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]
26.00	0.00008	Surface-Based	597901.85	4140219.34	13.58	3.40
			598008.34	4140212.25	14.36	3.40
			598155.91	4140195.55	15.31	3.40
			598206.95	4140191.84	15.90	3.40
			598416.70	4140175.13	17.32	3.40
			598535.49	4140163.99	18.78	3.40
			598674.70	4140150.07	19.34	3.40
			598712.75	4140147.29	19.70	3.40
			598732.24	4140145.43	19.98	3.40

Source Pathway - Source Inputs

AERMOD

Source Type: LINE VOLUME
Source: ROAD2

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]
16.00	4.28E-6	Surface-Based	598187.65	4140207.62	15.78	3.40
			598189.51	4140272.59	15.55	3.40
			598204.36	4140310.64	15.61	3.40
			598246.12	4140368.19	15.53	3.40

Source Type: LINE VOLUME
Source: ROAD2_PM25

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]
16.00	0.00004	Surface-Based	598187.65	4140207.62	15.78	3.40
			598189.51	4140272.59	15.55	3.40
			598204.36	4140310.64	15.61	3.40
			598246.12	4140368.19	15.53	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 Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1_PM25	L0000349	597914.82	4140218.48	13.66	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000350	597940.76	4140216.75	13.94	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000351	597966.71	4140215.03	14.13	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000352	597992.65	4140213.30	14.27	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000353	598018.55	4140211.10	14.45	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000354	598044.38	4140208.17	14.65	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000355	598070.22	4140205.25	14.82	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000356	598096.05	4140202.32	14.98	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000357	598121.89	4140199.40	15.09	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000358	598147.72	4140196.47	15.23	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000359	598173.62	4140194.26	15.68	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000360	598199.56	4140192.37	15.96	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000361	598225.48	4140190.36	15.84	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000362	598251.40	4140188.30	16.03	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000363	598277.31	4140186.23	16.19	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000364	598303.23	4140184.17	16.38	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000365	598329.15	4140182.10	16.59	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000366	598355.07	4140180.04	16.76	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000367	598380.98	4140177.97	16.92	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000368	598406.90	4140175.91	17.18	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000369	598432.80	4140173.62	17.47	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000370	598458.69	4140171.19	17.90	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000371	598484.57	4140168.77	18.35	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000372	598510.46	4140166.34	18.59	3.40	2.40E-6	26.00	Surface-Based	12.09	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	L0000373	598536.35	4140163.91	18.79	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000374	598562.22	4140161.32	18.90	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000375	598588.09	4140158.73	18.99	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000376	598613.96	4140156.15	19.06	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000377	598639.83	4140153.56	19.32	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000378	598665.70	4140150.97	19.34	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000379	598691.61	4140148.84	19.45	3.40	2.40E-6	26.00	Surface-Based	12.09	3.16
	L0000380	598717.53	4140146.83	19.75	3.40	2.40E-6	26.00	Surface-Based	12.09	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	L0000446	597914.82	4140218.48	13.66	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000447	597940.76	4140216.75	13.94	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000448	597966.71	4140215.03	14.13	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000449	597992.65	4140213.30	14.27	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000450	598018.55	4140211.10	14.45	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000451	598044.38	4140208.17	14.65	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000452	598070.22	4140205.25	14.82	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000453	598096.05	4140202.32	14.98	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000454	598121.89	4140199.40	15.09	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000455	598147.72	4140196.47	15.23	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000456	598173.62	4140194.26	15.68	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000457	598199.56	4140192.37	15.96	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000458	598225.48	4140190.36	15.84	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000459	598251.40	4140188.30	16.03	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000460	598277.31	4140186.23	16.19	3.40	2.76E-7	26.00	Surface-Based	12.09	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	L0000461	598303.23	4140184.17	16.38	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000462	598329.15	4140182.10	16.59	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000463	598355.07	4140180.04	16.76	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000464	598380.98	4140177.97	16.92	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000465	598406.90	4140175.91	17.18	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000466	598432.80	4140173.62	17.47	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000467	598458.69	4140171.19	17.90	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000468	598484.57	4140168.77	18.35	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000469	598510.46	4140166.34	18.59	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000470	598536.35	4140163.91	18.79	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000471	598562.22	4140161.32	18.90	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000472	598588.09	4140158.73	18.99	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000473	598613.96	4140156.15	19.06	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000474	598639.83	4140153.56	19.32	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000475	598665.70	4140150.97	19.34	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000476	598691.61	4140148.84	19.45	3.40	2.76E-7	26.00	Surface-Based	12.09	3.16
	L0000477	598717.53	4140146.83	19.75	3.40	2.76E-7	26.00	Surface-Based	12.09	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	L0000478	598187.88	4140215.62	15.65	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000479	598188.34	4140231.61	15.47	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000480	598188.80	4140247.61	15.51	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000481	598189.25	4140263.60	15.55	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000482	598192.06	4140279.12	15.60	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000483	598197.87	4140294.02	15.63	3.40	3.89E-7	16.00	Surface-Based	7.44	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	L0000484	598203.69	4140308.93	15.63	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000485	598212.68	4140322.10	15.66	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000486	598222.08	4140335.05	15.65	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000487	598231.47	4140348.00	15.64	3.40	3.89E-7	16.00	Surface-Based	7.44	3.16
	L0000488	598240.87	4140360.95	15.55	3.40	3.89E-7	16.00	Surface-Based	7.44	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_PM25	L0000489	598187.88	4140215.62	15.65	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000490	598188.34	4140231.61	15.47	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000491	598188.80	4140247.61	15.51	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000492	598189.25	4140263.60	15.55	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000493	598192.06	4140279.12	15.60	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000494	598197.87	4140294.02	15.63	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000495	598203.69	4140308.93	15.63	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000496	598212.68	4140322.10	15.66	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000497	598222.08	4140335.05	15.65	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000498	598231.47	4140348.00	15.64	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16
	L0000499	598240.87	4140360.95	15.55	3.40	3.32E-6	16.00	Surface-Based	7.44	3.16

Source Pathway

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**	List of Sources in Group (Source Range or Single Sources)
	SITE_PM25
	ROAD1_PM25
	ROAD2_PM25

Source Group ID: **DPM**	List of Sources in Group (Source Range or Single Sources)
	SITE
	ROAD1
	ROAD2

Source Group ID: **ALL**	List of Sources in Group (Source Range or Single Sources)
	All Sources Included

Variable Emissions

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

Scenario: Scenario 1

Source ID:	**SITE**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00	
	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 of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00	
	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	
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
	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**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00	
	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 of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00	
	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	
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
	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**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00	
	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 of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00	
	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	
Sunday								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	0.00	0.00	0.00	0.00	
	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**							
Weekdays								
Hour of Day	1 - 6	0.00	0.00	0.00	0.00	0.00	0.00	
	7 - 12	0.00	0.00	1.00	1.00	1.00	1.00	
	13 - 18	0.00	1.00	1.00	1.00	1.00	0.00	

Source Pathway

AERMOD

Scenario: Scenario 1

Source ID:	**SITE_PM25**							
		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	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
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_PM25**							
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	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
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_PM25**							
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	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
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

Receptor Pathway

Receptor Networks

Note: Terrain Elavations 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	598463.91	4140609.19	BU	17.12	
2	598476.11	4140607.42	CO	17.20	
3	598468.81	4140605.09	RT	17.17	
4	598476.01	4140599.09	BU	17.20	
5	598532.97	4140596.61	BU	17.32	
6	598479.74	4140596.37	RT	17.21	
7	598535.37	4140594.72	RT	17.30	
8	598542.01	4140589.38	RL	17.27	
9	598545.79	4140586.76	CO	17.28	
10	598552.09	4140582.13	BU	17.33	
11	598556.52	4140579.15	BU	17.36	
12	598561.66	4140575.42	RT	17.38	
13	598422.67	4140561.96	RT	16.79	
14	598598.95	4140561.37	SF	18.17	
15	598426.26	4140559.64	RT	16.80	
16	598422.26	4140556.52	BU	16.80	
17	598430.57	4140556.38	BU	16.79	
18	598426.80	4140553.97	BU	16.81	
19	598586.35	4140550.09	SF	18.17	
20	598428.33	4140545.01	CO	16.74	
21	598565.08	4140533.93	RT	18.22	
22	598625.76	4140527.63	SF	18.49	
23	598640.82	4140518.53	SF	18.51	
24	598653.26	4140506.27	SF	18.67	
25	598603.37	4140504.40	MF	18.39	
26	598602.09	4140502.37	MF	18.42	
27	598601.04	4140500.82	MF	18.41	
28	598599.27	4140499.03	MF	18.39	
29	598618.82	4140492.64	MF	18.56	
30	598617.78	4140490.38	MF	18.59	

31	598616.73	4140488.36	MF	18.61
32	598615.21	4140486.57	MF	18.61
33	598633.33	4140481.23	MF	18.80
34	598631.56	4140479.08	MF	18.82
35	598629.45	4140477.28	MF	18.82
36	598628.28	4140475.61	MF	18.81
37	598648.52	4140470.89	MF	18.93
38	598495.46	4140469.91	BU	17.09
39	598646.53	4140468.73	MF	18.95
40	598498.56	4140467.82	BU	17.11
41	598644.30	4140466.23	MF	18.96
42	598642.20	4140463.72	MF	18.95
43	598660.88	4140459.80	MF	19.04
44	598658.77	4140457.30	MF	19.05
45	598657.01	4140455.62	MF	19.04
46	598668.53	4140455.16	MF	19.11
47	598691.10	4140441.13	SF	19.66
48	598679.43	4140434.55	SF	19.55
49	598473.97	4140419.54	BU	16.51
50	598700.89	4140416.21	SF	19.53
51	598603.26	4140387.47	BU	18.86
52	598652.64	4140367.72	BU	18.78
53	598351.22	4140364.17	BU	16.45
54	598557.18	4140361.35	BU	18.31
55	598561.20	4140357.54	BU	18.32
56	598654.56	4140355.21	BU	18.79
57	598566.17	4140353.74	BU	18.32
58	598568.97	4140349.76	BU	18.34
59	598574.32	4140346.42	BU	18.32
60	598580.14	4140342.91	BU	18.31
61	598585.00	4140338.92	BU	18.32
62	598560.52	4140335.97	CO	18.18
63	598588.72	4140334.82	BU	18.33
64	598535.82	4140333.41	BU	18.16
65	598593.42	4140330.97	BU	18.34
66	598717.04	4140329.54	MF	20.17
67	598598.40	4140327.27	BU	18.38
68	598545.33	4140327.10	BU	18.21

69	598714.13	4140325.62	MF	20.19
70	598602.39	4140323.72	BU	18.42
71	598710.65	4140321.88	MF	20.20
72	598549.73	4140320.26	BU	18.19
73	598605.88	4140319.02	BU	18.49
74	598707.51	4140318.50	MF	20.20
75	598557.48	4140315.07	BU	18.19
76	598704.66	4140314.47	MF	20.19
77	598561.08	4140310.14	BU	18.19
78	598701.65	4140309.65	MF	20.17
79	598627.42	4140308.53	BU	18.67
80	598730.13	4140306.94	MF	20.40
81	598698.76	4140305.76	MF	20.15
82	598567.32	4140305.18	BU	18.20
83	598726.57	4140303.03	MF	20.42
84	598695.76	4140302.46	MF	20.14
85	598620.02	4140300.58	BU	18.63
86	598723.72	4140299.56	MF	20.41
87	598574.74	4140299.02	BU	18.24
88	598692.49	4140298.64	MF	20.12
89	598720.76	4140295.50	MF	20.40
90	598688.86	4140294.84	MF	20.12
91	598615.96	4140293.80	BU	18.62
92	598582.14	4140293.21	BU	18.33
93	598717.88	4140292.81	MF	20.38
94	598686.49	4140290.69	MF	20.10
95	598753.00	4140289.41	MF	20.66
96	598611.14	4140289.07	BU	18.62
97	598715.03	4140288.96	MF	20.37
98	598683.17	4140286.44	MF	20.07
99	598749.86	4140285.68	MF	20.68
100	598711.94	4140284.22	MF	20.37
101	598607.54	4140283.04	BU	18.62
102	598680.75	4140282.71	MF	19.98
103	598747.06	4140282.06	MF	20.66
104	598709.19	4140280.58	MF	20.36
105	598743.99	4140278.08	MF	20.61
106	598603.93	4140277.36	BU	18.63

107	598706.41	4140276.80	MF	20.36
108	598740.83	4140274.06	MF	20.62
109	598703.04	4140273.22	MF	20.34
110	598600.21	4140271.69	BU	18.61
111	598737.77	4140269.97	MF	20.59
112	598518.65	4140269.97	BU	18.26
113	598700.13	4140268.98	MF	20.33
114	598755.09	4140268.13	MF	20.84
115	598734.35	4140266.40	MF	20.57
116	598752.77	4140265.30	MF	20.83
117	598666.49	4140264.66	MF	19.70
118	598731.28	4140262.89	MF	20.57
119	598749.53	4140262.05	MF	20.81
120	598663.23	4140261.67	MF	19.70
121	598728.48	4140258.50	MF	20.52
122	598746.25	4140257.06	MF	20.80
123	598660.42	4140256.69	MF	19.69
124	598726.00	4140256.01	MF	20.52
125	598742.70	4140252.85	MF	20.76
126	598657.93	4140252.68	MF	19.67
127	598723.21	4140251.69	MF	20.51
128	598684.68	4140251.56	MF	19.94
129	598653.60	4140249.09	MF	19.66
130	598720.33	4140248.00	MF	20.47
131	598681.76	4140247.39	MF	19.91
132	598737.21	4140246.44	MF	20.67
133	598650.25	4140245.37	MF	19.67
134	598717.03	4140244.36	MF	20.48
135	598679.28	4140243.13	MF	19.93
136	598734.24	4140242.67	MF	20.64
137	598647.75	4140241.87	MF	19.66
138	598675.34	4140239.75	MF	19.88
139	598731.18	4140238.57	MF	20.62
140	598645.19	4140237.13	MF	19.65
141	598672.62	4140236.09	MF	19.87
142	598729.11	4140235.26	MF	20.61
143	598642.50	4140233.72	MF	19.67
144	598709.26	4140233.14	MF	20.35

145	598668.82	4140232.44	MF	19.84
146	598725.82	4140230.88	MF	20.59
147	598639.56	4140230.00	MF	19.71
148	598705.94	4140229.60	MF	20.30
149	598667.59	4140229.11	MF	19.86
150	598722.72	4140227.46	MF	20.58
151	598583.02	4140227.13	BU	18.31
152	598702.70	4140225.76	MF	20.23
153	598663.98	4140225.19	MF	19.84
154	598719.80	4140223.53	MF	20.53
155	598580.42	4140222.71	BU	18.27
156	598699.82	4140222.08	MF	20.23
157	598661.24	4140221.74	MF	19.82
158	598697.14	4140217.95	MF	20.19
159	598658.25	4140217.64	MF	19.77
160	598634.48	4140217.62	NEARSF	19.62
161	598713.30	4140215.21	MF	20.38
162	598693.76	4140214.25	MF	20.17
163	598755.18	4140213.61	SF	20.75
164	598634.98	4140212.71	NEARSF	19.60
165	598571.63	4140211.62	BU	18.25
166	598710.57	4140211.34	MF	20.35
167	598752.84	4140211.30	SF	20.76
168	598691.24	4140211.28	MF	20.17
169	598750.39	4140208.52	SF	20.74
170	598707.72	4140208.07	MF	20.32
171	598633.09	4140207.84	NEARSF	19.62
172	598688.10	4140207.32	MF	20.13
173	598438.00	4140212.00	BU	17.84
174	598747.95	4140206.09	SF	20.73
175	598704.11	4140203.82	MF	20.32
176	598685.20	4140203.54	MF	20.11
177	598632.35	4140202.99	NEARSF	19.61
178	598702.17	4140200.71	MF	20.31
179	598682.11	4140199.48	MF	20.05
180	598633.33	4140197.98	NEARSF	19.57
181	598698.81	4140197.32	MF	20.30
182	598631.48	4140193.04	NEARSF	19.50

183	598695.64	4140192.56	MF	20.25
184	598692.13	4140188.89	MF	20.12
185	598721.81	4140183.95	SF	20.42
186	598725.53	4140183.70	SF	20.44
187	598729.66	4140183.34	SF	20.46
188	598733.39	4140182.81	SF	20.47
189	598737.12	4140182.61	SF	20.49
190	598741.80	4140182.53	SF	20.54
191	598645.48	4140175.40	MF	19.53
192	598650.04	4140175.02	MF	19.58
193	598654.85	4140174.75	MF	19.61
194	598659.83	4140174.27	MF	19.61
195	598669.73	4140173.55	MF	19.65
196	598664.96	4140173.55	MF	19.61
197	598674.74	4140172.62	MF	19.62
198	598679.42	4140172.53	MF	19.61
199	598056.73	4140149.25	BU	15.43
200	598138.08	4140140.42	BU	15.95
201	598069.65	4140135.09	BU	15.49
202	598322.69	4140134.45	BU	17.52
203	598249.40	4140133.85	BU	16.92
204	598153.54	4140133.14	BU	16.11
205	598084.29	4140132.55	BU	15.42
206	598573.85	4140132.31	NEARSF	19.60
207	598563.52	4140132.30	NEARSF	19.52
208	598583.69	4140131.60	NEARSF	19.58
209	598134.99	4140130.99	BU	15.99
210	598593.78	4140130.90	NEARSF	19.58
211	598603.96	4140130.11	NEARSF	19.62
212	598340.75	4140129.06	BU	17.57
213	598613.89	4140129.05	NEARSF	19.67
214	598623.72	4140128.07	NEARSF	19.69
215	598633.91	4140127.02	NEARSF	19.74
216	598644.81	4140125.89	NEARSF	19.77
217	598356.06	4140122.61	BU	17.60
218	598147.44	4140122.10	BU	16.05
219	598144.39	4140122.02	BU	16.04
220	598682.87	4140121.24	MF	19.81

221	598680.34	4140121.22	MF	19.80
222	598688.51	4140120.19	MF	19.83
223	598250.52	4140119.96		16.74
224	598690.53	4140119.95	MF	19.83
225	598697.10	4140119.54	MF	19.82
226	598699.74	4140119.17	MF	19.82
227	598706.23	4140119.03	MF	19.80
228	598144.47	4140118.97	BU	16.04
229	598708.25	4140118.73	MF	19.81
230	598371.66	4140117.35	BU	17.72
231	598150.65	4140116.09	BU	16.08
232	598147.60	4140116.01	BU	16.05
233	598144.56	4140115.93	BU	16.04
234	598132.04	4140113.76	BU	16.04
235	598142.99	4140112.72	BU	16.04
236	598677.95	4140112.30	MF	19.81
237	598688.12	4140111.78	MF	19.85
238	598680.54	4140111.68	MF	19.84
239	598689.90	4140111.36	MF	19.85
240	598697.56	4140111.20	MF	19.87
241	598699.45	4140110.89	MF	19.87
242	598705.21	4140110.09	MF	19.86
243	598708.29	4140109.91	MF	19.87
244	598137.52	4140104.57	BU	15.98
245	598367.56	4140103.39	BU	17.78
246	598575.34	4140103.01	SF	19.56
247	598585.37	4140101.51	SF	19.62
248	598595.73	4140100.55	SF	19.65
249	598605.84	4140099.49	SF	19.69
250	598615.40	4140098.69	SF	19.72
251	598626.10	4140098.44	SF	19.71
252	598330.47	4140096.88	BU	17.75
253	598451.70	4140094.72	BU	18.52
254	598685.42	4140094.21	MF	19.82
255	598688.55	4140092.75	MF	19.81
256	598692.32	4140087.61	MF	19.85
257	598679.30	4140086.42	MF	19.83
258	598694.87	4140086.41	MF	19.87

259	598369.44	4140085.86	BU	17.85
260	598680.93	4140084.64	MF	19.84
261	598687.33	4140081.57	MF	19.83
262	598330.51	4140080.94	BU	17.81
263	598675.63	4140079.94	MF	19.84
264	598689.87	4140079.35	MF	19.83
265	598633.74	4140078.62	MF	19.76
266	598677.92	4140078.15	MF	19.85
267	598590.25	4140077.61	SF	19.86
268	598681.12	4140075.42	MF	19.86
269	598636.57	4140074.99	MF	19.79
270	598683.96	4140073.75	MF	19.84
271	598031.51	4140073.30	BU	15.59
272	598599.30	4140073.16	SF	19.87
273	598668.33	4140072.72	MF	19.79
274	598639.82	4140071.31	MF	19.87
275	598629.71	4140071.24	MF	19.77
276	598371.21	4140070.80	BU	17.84
277	598671.73	4140070.65	MF	19.81
278	598631.28	4140068.18	MF	19.75
279	598643.60	4140067.69	MF	19.84
280	598676.38	4140066.49	MF	19.84
281	598635.70	4140065.76	MF	19.80
282	598333.42	4140065.37	BU	17.72
283	598678.02	4140065.07	MF	19.85
284	598606.32	4140064.78	SF	19.71
285	598647.44	4140064.36	MF	19.79
286	598638.29	4140063.31	MF	19.84
287	598651.63	4140061.04	MF	19.72
288	598641.61	4140061.00	MF	19.85
289	598646.16	4140057.68	MF	19.78
290	598254.36	4140054.35	BU	17.26
291	598371.91	4140053.72	BU	17.78
292	598334.47	4140050.43	BU	17.65
293	598515.97	4140039.20	BU	18.86
294	598643.58	4140038.95	MF	19.79
295	598645.15	4140037.78	MF	19.79
296	598458.75	4140033.56	BU	18.76

297	598526.73	4140033.52	BU	18.86
298	598649.27	4140033.34	MF	19.80
299	598537.23	4140032.62	BU	18.92
300	598638.45	4140031.83	MF	19.82
301	598651.60	4140031.53	MF	19.82
302	598480.43	4140030.44	BU	18.88
303	598640.49	4140030.32	MF	19.83
304	598449.99	4140026.65	BU	18.78
305	598546.35	4140026.28	BU	18.94
306	598645.76	4140026.16	MF	19.82
307	598647.36	4140025.47	MF	19.82
308	598472.16	4140024.73	BU	18.85
309	598632.74	4140024.39	MF	19.82
310	598634.31	4140022.92	MF	19.82
311	598637.83	4140020.28	MF	19.83
312	598627.58	4140019.12	MF	19.80
313	598639.51	4140018.87	MF	19.83
314	598628.90	4140017.54	MF	19.81
315	598632.58	4140013.55	MF	19.84
316	598634.43	4140011.73	MF	19.85
317	598523.12	4139997.71	BU	18.96
318	598101.84	4139996.49	BU	16.98
319	598112.29	4139991.60	BU	17.04
320	598451.89	4139989.60	BU	18.84
321	598397.17	4139987.43	BU	18.64
322	598523.82	4139986.62	BU	18.97
323	598465.81	4139985.23	BU	19.00
324	598309.43	4139983.62	BU	18.08
325	598475.59	4139981.38	BU	18.98
326	598221.68	4139977.04	BU	17.19
327	598484.63	4139976.94	BU	18.95
328	598519.92	4139976.07	BU	19.00
329	598520.57	4139964.69	BU	19.03
330	597896.95	4139838.84	ED	15.44
331	598083.76	4140585.50		13.89
332	598052.78	4140504.46		14.28
333	598067.08	4140368.62		14.70
334	598146.92	4140317.37		15.22

335	598111.17	4140261.37		15.57
336	598154.07	4140316.18		15.26
337	598303.02	4140384.11		16.12
338	597964.59	4140422.24		14.16
339	598200.85	4140378.43	NEARSF	15.81
340	598208.93	4140389.00	NEARSF	15.79
341	598291.05	4140458.06	NEARSF	15.63
342	598299.14	4140469.25	NEARSF	15.67
343	598281.10	4140483.56	SF	16.03
344	598276.12	4140473.61	SF	15.99
345	598246.26	4140468.63	SF	16.01
346	598236.31	4140454.94	SF	16.01
347	598222.62	4140438.77	SF	15.92
348	598269.28	4140495.38	SF	16.02
349	598259.95	4140483.56	SF	16.01
350	598252.48	4140515.29	SF	16.03
351	598246.26	4140499.74	SF	16.02
352	598227.60	4140477.96	SF	16.02
353	598216.40	4140467.39	SF	15.78
354	598206.45	4140456.19	SF	15.07
355	598291.67	4140509.07	SF	16.18
356	598282.34	4140522.13	SF	16.20
357	598271.14	4140530.22	SF	16.15
358	598251.24	4140514.67	SF	16.02
359	598243.77	4140505.96	SF	16.03
360	598231.95	4140530.22	SF	15.48
361	598214.53	4140535.19	SF	15.32
362	598226.35	4140511.55	SF	15.64
363	598212.04	4140517.78	SF	15.10
364	598214.53	4140494.14	SF	15.27
365	598202.09	4140499.74	SF	14.71
366	598182.18	4140421.97	SF	15.40
367	598160.41	4140418.24	SF	15.47
368	598176.59	4140443.75	SF	15.72
369	598153.57	4140441.26	SF	15.61
370	598172.23	4140472.99	SF	15.49
371	598146.10	4140469.88	SF	15.41
372	598172.23	4140492.89	SF	15.43

373	598147.35	4140486.67	SF	15.23
374	598166.01	4140512.18	SF	15.42
375	598146.73	4140516.53	SF	15.24
376	598176.59	4140532.08	SF	15.40
377	598158.54	4140538.30	SF	15.36
378	598252.35	4140547.33	SF	16.07
379	598233.68	4140555.41	SF	15.97
380	598213.77	4140558.53	SF	15.76
381	598194.49	4140567.23	SF	15.62
382	598177.07	4140574.70	SF	15.70
383	598165.25	4140576.57	SF	15.59
384	598150.32	4140582.17	SF	15.27
385	598140.37	4140562.88	SF	14.80
386	598131.04	4140548.57	SF	14.65
387	598120.46	4140529.91	SF	14.43
388	598118.59	4140494.45	SF	14.65
389	598120.46	4140474.54	SF	14.75
390	598124.19	4140429.13	SF	15.08
391	598127.30	4140411.71	SF	15.18
392	598137.26	4140394.91	SF	15.31
393	598149.70	4140386.20	SF	15.45
394	598164.01	4140372.52	SF	15.47
395	598174.58	4140363.19	NEARSF	15.42
396	598184.54	4140352.61	NEARSF	15.38
397	598001.35	4140351.30		14.26
398	598005.40	4140303.69		14.63
399	598004.39	4140248.98		14.75
400	597978.05	4140254.05		14.67
401	597980.08	4140309.76		14.49
402	597974.00	4140358.39		14.25
403	597944.62	4140358.39		14.33
404	597946.65	4140303.69		14.59
405	597944.62	4140258.10		14.56
406	597917.27	4140257.09		14.56
407	597922.33	4140315.84		14.49
408	597920.31	4140351.30		14.19
409	598229.38	4140384.67	NEARSF	16.02
410	598223.10	4140376.83	NEARSF	16.14

411	598214.64	4140361.77	NEARSF	16.34	

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	MF	
2	SF	
3	MH	
4	BU	
5	GO	
6	CO	
7	MI	
8	RE	
9	ED	
10	FB	
11	RT	
12	RL	
13	HT	
14	TR	
15	NEARSF	

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

2234 Lundy Place Industrial Warehouse Project
Construction HRA

PM10 - Concentration - Source Group: DPM

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.15478	ug/m^3	598438.00	4140212.00	17.84	0.00	17.84	

PM10 - Concentration - Source Group: PM25

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.23721	ug/m^3	598438.00	4140212.00	17.84	0.00	17.84	

Sensitive Receptor Summary

2234 Lundy Place Industrial Warehouse Project
Construction HRA

PM10 - Concentration - Source Group: DPM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.03327	ug/m^3	SF	598573.85	4140132.31	19.60	0.00	19.60	
PERIOD		0.03578	ug/m^3	SF	598563.52	4140132.30	19.52	0.00	19.52	
PERIOD		0.03098	ug/m^3	SF	598583.69	4140131.60	19.58	0.00	19.58	
PERIOD		0.02877	ug/m^3	SF	598593.78	4140130.90	19.58	0.00	19.58	
PERIOD		0.02667	ug/m^3	SF	598603.96	4140130.11	19.62	0.00	19.62	
PERIOD		0.02477	ug/m^3	SF	598613.89	4140129.04	19.67	0.00	19.67	
PERIOD		0.02304	ug/m^3	SF	598623.72	4140128.07	19.69	0.00	19.69	
PERIOD		0.02138	ug/m^3	SF	598633.91	4140127.02	19.74	0.00	19.74	
PERIOD		0.01975	ug/m^3	SF	598644.81	4140125.89	19.77	0.00	19.77	
PERIOD		0.02870	ug/m^3		598200.85	4140378.43	15.81	0.00	15.81	
PERIOD		0.02567	ug/m^3		598208.93	4140389.00	15.79	0.00	15.79	
PERIOD		0.02589	ug/m^3		598174.58	4140363.19	15.42	0.00	15.42	
PERIOD		0.03185	ug/m^3		598184.54	4140352.61	15.38	0.00	15.38	
PERIOD		0.03056	ug/m^3		598229.38	4140384.67	16.02	0.00	16.02	
PERIOD		0.03502	ug/m^3		598223.10	4140376.83	16.14	0.00	16.14	
PERIOD		0.04167	ug/m^3	MEIR	598214.64	4140361.77	16.34	0.00	16.34	

Sensitive Receptor Summary

2234 Lundy Place Industrial Warehouse Project
Construction HRA

PM10 - Concentration - Source Group: PM25

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.05182	ug/m^3	SF	598573.85	4140132.31	19.60	0.00	19.60	
PERIOD		0.05563	ug/m^3	SF	598563.52	4140132.30	19.52	0.00	19.52	
PERIOD		0.04833	ug/m^3	SF	598583.69	4140131.60	19.58	0.00	19.58	
PERIOD		0.04494	ug/m^3	SF	598593.78	4140130.90	19.58	0.00	19.58	
PERIOD		0.04174	ug/m^3	SF	598603.96	4140130.11	19.62	0.00	19.62	
PERIOD		0.03883	ug/m^3	SF	598613.89	4140129.04	19.67	0.00	19.67	
PERIOD		0.03616	ug/m^3	SF	598623.72	4140128.07	19.69	0.00	19.69	
PERIOD		0.03362	ug/m^3	SF	598633.91	4140127.02	19.74	0.00	19.74	
PERIOD		0.03112	ug/m^3	SF	598644.81	4140125.89	19.77	0.00	19.77	
PERIOD		0.04439	ug/m^3		598200.85	4140378.43	15.81	0.00	15.81	
PERIOD		0.03968	ug/m^3		598208.93	4140389.00	15.79	0.00	15.79	
PERIOD		0.04005	ug/m^3		598174.58	4140363.19	15.42	0.00	15.42	
PERIOD		0.04932	ug/m^3		598184.54	4140352.61	15.38	0.00	15.38	
PERIOD		0.04725	ug/m^3		598229.38	4140384.67	16.02	0.00	16.02	
PERIOD		0.05426	ug/m^3		598223.10	4140376.83	16.14	0.00	16.14	
PERIOD		0.06467	ug/m^3	MEIR	598214.64	4140361.77	16.34	0.00	16.34	

HEALTH RISK ASSESSMENT CALCULATIONS

2234 Lundy Place Industrial Warehouse Project

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. For this project, the dispersion modeling utilized predicted emission rates directly to calculate potential DPM and PM2.5 concentrations at each receptor and therefore the Health Risk Assessment Standalone Tool (RAST) version of HARP2 was used. Dose and exposure calculations following OEHHA Guidance and using OEHHA derived intake inputs (exposure frequency, breathing rates, time-at-home, etc.) are automatically performed in HARP2 with selection of the appropriate exposure scenarios as inputs. The program pollutant database contains the cancer potency value and Acute and Chronic Reference Exposure Limits (RELs) for the pollutants and ensures that the most up-to-date OEHHA approved values are used.

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. The district's new recommendation is that the health assessment be consistent with the Air District's permitting requirements and include evaluation of all receptors (residential, off-site worker and schools), as applicable.

AERMOD Inputs – The AMS/EPA Regulatory Model (AERMOD) was utilized to predict the ground level concentrations resulting from the emissions of DPM and PM2.5 associated with construction activities. The modeling included both emissions generated at the project site and those generated along the anticipated haul roads within 1,000 ft of the site boundary. Diesel exhaust and dust from material movement were characterized by an area source with a height of 5 meters to account for the height of the construction exhaust from the off-road equipment. Roadway emissions (including exhaust, brake and tire wear and road dust) were modeled as line-volume sources or adjacent volume sources. The initial dimensions of the adjacent volumes were determined using US EPA Haul Road Guidance (2012) and a truck height of 4.0 meters as recommended by BAAQMD. The modeling utilized Urban dispersion coefficients and BAAQMD provided meteorological data from the San Jose International Airport. Emissions were modeled only during the hours of 8 AM – 5 PM Monday to Saturday, by utilizing calculated rates from CalEEMod dividing the emissions over the construction hours.

Age Sensitivity Factors – Studies have shown that young animals are more sensitive than adult animals to exposure to many carcinogens (OEHHA, 2009)[1]. Therefore, OEHHA developed age sensitivity factors (ASFs) to account for the increased sensitivity to carcinogens during early-in-life exposures. Accordingly,

[1] Office of Environmental Health Hazard Assessment (OEHHA). 2009. Technical Support Document for Cancer Potency Factors 200 . June 2009, http://www.oehha.ca.gov/air/hot_spots/tsd052909.html) Accessed August 27, 2024.

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. All exposures for the construction HRA fall within the third trimester to less than two-year (infant) age bin.

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 CAPCOA[2] and adopted by BAAQMD[3] 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.[4]

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 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 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. 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 1.02 years.

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

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[2] 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.

[3] 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.

[4] 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/crnr/2015guidancemanual.pdf. Accessed March 29, 2024.

OEHHA, 2009; see http://www.oehha.ca.gov/air/hot_spots/tsd052909.html).

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 1.02 years, the residential exposure starts with the unborn child at the third trimester (when construction begins) and continues until the child is 0.77 years of age.

Residential cancer risk was calculated for the nearest resident in all directions from the site to determine the maximum impacted resident, considering concentrations from wind direcions.

Worker Cancer Risk -

Cancer risk and the chronic hazard index was calculated for the maximum impacted off-site worker based on the maximum DPM concentration at identified off-site receptors-hour breathing rates for moderate intensity activities of 230 L/kg-8 hrs (applicable to 16–70-year adults) were used to calculate the daily dose via the inhalation route to the worker. The analysis assumes a start age of 16 years and an exposure duration equivalent to the construction duration of 1.02 years.

Since the construction emissions were modeled as a non-continuous source, the worker adjustment factor was used to adjust for the proper exposure concentration. When modeling a non-continuously emitting source (e.g., operating for eight hours per day and six 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.

The worker adjustment factor (WAF) is used to determine the long-term concentration the worker is breathing during their work shift. Accordingly, adjustments were made to the long-term concentration such that it accounts for only the hours the worker is present. For this project, assuming the emitting source and worker's schedules are the same, the adjustment factor is 3.5 = (24 hours per day/8 hours per shift) x (7 days in a week/6 days in a work week). A WAF of 3.5 was entered in HARP to make this adjustment.

Noncancer Chronic Health Risks

Chronic RELs are used to assess residential health impacts characterized by the chronic hazard index, affecting the respiratory system for DPM.

Potential chronic noncancer health impacts use the long-term annual average concentration regardless of the emitting facility's schedule.

HARP2 - HRACalc (dated 22118) 3/12/2025 8:18:05 PM - Output Log

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: 0.77

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.77
2<9 Years Bin: 0
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: 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\29310001_R\ConHRA\HARP\MEIRCancerCancerRisk.csv
HRA ran successfully

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\29310001_R\ConHRA\HARP\MEIRChronicNCChronicRisk.csv
HRA ran successfully

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 0.77

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0.77
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
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: 3.5
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\29310001_R\ConHRA\HARP\MEIWCancerCancerRisk.csv
HRA ran successfully

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
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
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: 3.5
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\29310001_R\ConHRA\HARP\MEIWChronicNCChronicRisk.csv
HRA ran successfully

2234 Lundy Place Project

Construction Health Risk Results - Cancer Risks

*HARP - HRACalc v22118 3/12/2025 8:18:05 PM - Cancer Risk - Input File: F:\Jobs\29310001_R\ConHRA\HARP\MEIRCancerHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
1	598214.64	4140361.77	9901	DieselExhPM	0.04167	5.8367e-06	0.77YrCancerRMP_Inh	*	**5.8367e-06**

*HARP - HRACalc v22118 4/8/2025 12:20:21 PM - Cancer Risk - Input File: F:\Jobs\29310001_R\ConHRA\HARP\MEIWCancerHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
1	598444.99	4140207.21	9901	DieselExhPM	0.15478	1.1718e-06	0.77YrCancerRMP_Inh	*	**1.1718e-06**

2234 Lundy Place Project

Construction Cancer Risk - Chronic Risks

*HARP - HRACalc v22118 3/12/2025 8:18:38 PM - Chronic Risk - Input File: F:\Jobs\29310001_R\ConHRA\HARP\MEIRChronicHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
1	598214.64	4140361.77	9901	DieselExhPM	0.04167	NonCancerChronicHighEnd_Inh	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	**8.334e-03**	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00

*HARP - HRACalc v22118 4/8/2025 12:20:47 PM - Chronic Risk - Input File: F:\Jobs\29310001_R\ConHRA\HARP\MEIWChronicHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
1	598444.99	4140207.21	9901	DieselExhPM	0.15478	NonCancerChronicHighEnd_Inh	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	**3.0956e-02**	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00

OPERATIONAL HEALTH RISK ASSESSMENT CALCULATIONS – EMERGENCY GENERATOR

2234 Lundy Place Industrial Warehouse Project

The CAPCOA Diesel Internal Combustion Engine (DICE) Risk Tool was used to perform a Screening Risk Assessment for operational emissions associated with the emergency generator for the proposed project, The DICE risk tool, designed to assist local Air Pollution Control Districts and Air Quality Management Districts in California with performing screening health risk assessments (HRAs) for diesel particulate emissions from diesel internal combustion engines calculates potential health risks following the guidelines set by the California Air Resources Board (ARB). Additionally, the tool ensures consistency with the methodologies and procedures outlined in the Office of Environmental Health Hazard Assessment's (OEHHA) 2015 Air Toxic Hot Spots Program Guidance Manual and district HRA protocols. The tool provides detailed reports that include risk assessment results and supporting data. This alignment with OEHHA Guidance as well as the Bay Area Air Quality Management District (BAAQMD), the California Air Pollution Control Officers Association (CAPCOA), and CARB protocols helps ensure compliance with air quality regulations and protects public health by accurately assessing the impact of diesel engine emissions.

The operational HRA utilized the same methodology and AERMOD meteorological data set used for the Construction HRA (San José International Airport, KSJC), but in a screening mode – finding the maximum concentration and risk at each distance from 10 – 4850 meters from the source. The emissions inputs were consistent with the CalEEMod stationary source calculations from an assumed Tier 4 300-hp generator (meeting the BAAQMD BACT requirements) operating up to 50 hours per year for maintenance and testing, and an additional 100 hours per year of emergency operation as per BAAQMD 2022 CEQA Guideline recommendations. Release parameters were conservatively based on a horizontal release from the side of the building using defaults from DICE based on the generator size. This type of release modeling will provide conservative results as compared to a vertical stack release and is typical for a mid-rise building.

The MEIR and MEIW distances to the maximally impacted individual resident and work, are consistent with distances from the site, and identified in the Construction HRA, and are 25 meters. The screening model predicted a maximum residential cancer risk of 0.5 in a million at a distance of 40 meters from the source, and a maximum worker risk of 0 for all distances.

Source:

https://ww2.arb.ca.gov/resources/documents/non-vehicular-diesel-engine-risk-assessment-guidance

https://ww2.arb.ca.gov/sites/default/files/classic/ab2588/2024%20DICE%20Screening%20Risk%20Guidelines.pdf

https://capcoa.org/wp-content/uploads/2024/07/DICE-Tool-User-Guide.pdf

Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.2	25	0	25	-	-
Worker (MEIW)	0	25	0	25	-	-
Maximum (PMI)	0.5	50	0	50	-	-

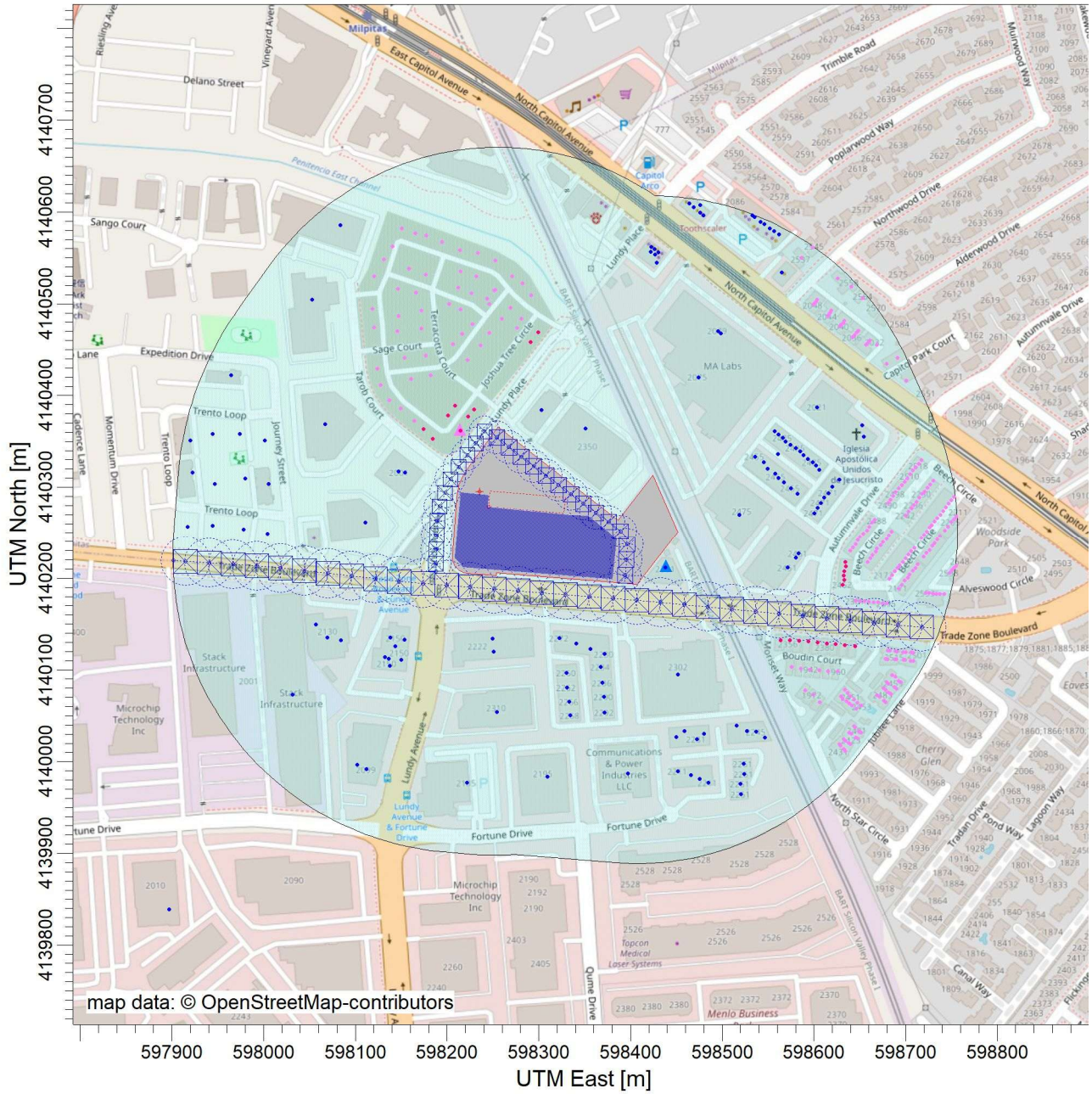
Table 2. Inputs		
Project Information		
Project Name:	22334 Lundy Place Industrial Warehouse	
Agency Jurisdiction:	Bay Area AQMD	
Project Output Directory:	C:\DICE\2234 Lundy Place	
Date Assessment Conducted:	3/7/2025 10:50:38 AM	
Inventory Year:		
Tool Version:	23312	
Meteorological Data		
Surface Met Data File (*.SFC):	C:\DICE\Metdata\SANJOSE13_17.SFC	
Profile Met Data File (*.PFL):	C:\DICE\Metdata\SANJOSE13_17.PFL	
Base Elevation (m):	15.5	
Dispersion Coefficients:	Urban	
Building Downwash:	No	
Engine Information		
Engine Horsepower:	300	
Engine Load Factor (%):	73	
Engine Annual Usage:	150	hours
Diesel PM10 Emission Factor:	0.01	g/bhp-hr
Diesel PM10 Emissions (lb/yr):	0.7227	
Stack Height (m):	3	
Stack Diameter (m):	0.13	
Stack Temperature (K):	789	
Stack Exit Velocity (m/s):	57.4	
Risk Settings		
Use District Defaults:	Yes	
Flagpole Receptor Height (m):	0	
Deposition Rate (g/s):	NA	
Receptor Type:	Resident	Worker
Exposure Duration (yrs):	30	25
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived
Time Away from Home <16:	No	-
Time Away from Home =>16:	No	-
Use 8-Hour Breathing Rate:	No	No
Enabled Pathways:	Inhalation Only	Inhalation Only

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	2.132778E-05	0	0	-	0	0	-
20	0.0001584937	0.1	0	-	0	0	-
30	0.0003870521	0.3	0	-	0	0	-
40	0.0005209774	0.5	0	-	0	0	-
50	0.0005572794	0.5	0	-	0	0	-
60	0.0005411888	0.5	0	-	0	0	-
70	0.0005094153	0.5	0	-	0	0	-
80	0.0004731974	0.4	0	-	0	0	-
90	0.0004377129	0.4	0	-	0	0	-
100	0.0004051887	0.4	0	-	0	0	-
110	0.0003761411	0.3	0	-	0	0	-
120	0.0003500505	0.3	0	-	0	0	-
130	0.0003265542	0.3	0	-	0	0	-
140	0.0003053975	0.3	0	-	0	0	-
150	0.0002862993	0.3	0	-	0	0	-
160	0.000269029	0.2	0	-	0	0	-
170	0.0002533703	0.2	0	-	0	0	-
180	0.0002391447	0.2	0	-	0	0	-
190	0.0002261857	0.2	0	-	0	0	-
200	0.0002143344	0.2	0	-	0	0	-
210	0.0002034672	0.2	0	-	0	0	-
220	0.0001934771	0.2	0	-	0	0	-
230	0.0001842735	0.2	0	-	0	0	-
240	0.0001757691	0.2	0	-	0	0	-
250	0.0001678903	0.1	0	-	0	0	-
260	0.0001605711	0.1	0	-	0	0	-
270	0.0001537501	0.1	0	-	0	0	-
280	0.0001473696	0.1	0	-	0	0	-
290	0.0001413866	0.1	0	-	0	0	-
300	0.0001357671	0.1	0	-	0	0	-
350	0.0001121654	0.1	0	-	0	0	-
400	9.435729E-05	0.1	0	-	0	0	-
450	8.063276E-05	0.1	0	-	0	0	-
500	6.981107E-05	0.1	0	-	0	0	-
600	5.400967E-05	0	0	-	0	0	-
700	4.319557E-05	0	0	-	0	0	-
800	3.544794E-05	0	0	-	0	0	-
900	2.969443E-05	0	0	-	0	0	-
1000	2.529619E-05	0	0	-	0	0	-
1150	2.040431E-05	0	0	-	0	0	-

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
1300	1.686947E-05	0	0	-	0	0	-
1450	1.422535E-05	0	0	-	0	0	-
1600	1.219119E-05	0	0	-	0	0	-
1750	1.06747E-05	0	0	-	0	0	-
1900	9.468181E-06	0	0	-	0	0	-
2050	8.466437E-06	0	0	-	0	0	-
2250	7.373323E-06	0	0	-	0	0	-
2450	6.490598E-06	0	0	-	0	0	-
2650	5.766291E-06	0	0	-	0	0	-
2850	5.163914E-06	0	0	-	0	0	-
3050	4.656753E-06	0	0	-	0	0	-
3250	4.225475E-06	0	0	-	0	0	-
3450	3.855108E-06	0	0	-	0	0	-
3650	3.534534E-06	0	0	-	0	0	-
3850	3.254914E-06	0	0	-	0	0	-
4050	3.009286E-06	0	0	-	0	0	-
4250	2.792347E-06	0	0	-	0	0	-
4450	2.599628E-06	0	0	-	0	0	-
4650	2.427595E-06	0	0	-	0	0	-
4850	2.273129E-06	0	0	-	0	0	-

2334 Lundy Place Project

Operational HRA - Source and Receptor Locations



Source Legend:

- Site
- Exhaust Stack
- Truck Route
- Building
- 0.25-Mile Buffer

Receptor Legend:

- Residential Receptor
- Nearby Residential Receptor
- Non-Residential Receptor
- Park / Open Space
- Maximally Exposed Individual Resident (MEIR)
- Maximally Exposed Individual Worker (MEIW)

FCS
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2334 Lundy Place Project

DPM from On-Site Idling at Dock

Project Truck Trips	**79.5**	**Trips/day**

Vehicle Fleet

	Project Trucks Vehicle Mix[3]	Project Trucks Daily One Way Trips	Project Truck Round Trips (Visits)	PM10E Idle Factor[5] (g/idle-hr)	Idle Time Total per Trip (min)	DPM Idle Factor (lb/trip)	DPM Emissions (lb/day)	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)
LHDT1	19.8%	15.7	7.9	0.328480	15	1.81E-04	2.85E-03	1.04	1.19E-04
LHDT2	4.9%	3.9	1.9	0.612882	15	3.38E-04	1.32E-03	0.48	5.48E-05
MHDT	20.7%	16.4	8.2	0.014571	15	8.03E-06	1.32E-04	0.05	5.50E-06
HHDT	54.60%	43.4	21.7	0.007422	15	4.09E-06	1.77E-04	0.06	7.39E-06
Truck Subtotal	100.0%	79.5	29.9			5.31E-04	4.47E-03	1.63	1.86E-04

Notes:

1. Conservatively modeled all PM10E as diesel. Non-diesel vehicles have low PM10E so this is a reasonable, but conservative , assumption.
2. Warehouse Building modeled as Light Warehouse.
3. Truck Fleet Mix based on Fontana Truck Trip Generation Study.
4. PM10 Exhaust Idle Exhaust Emission Factor from EMFAC2021-PL for Diesel Fueled Vehicles in Each Large Truck Category.

2334 Lundy Place Project

DPM from On-Site Idling at Dock

Project Truck Trips	**79.5**	**Trips/day**

Vehicle Fleet

	Project Trucks Vehicle Mix[3]	Project Trucks Daily One Way Trips	Project Truck Round Trips (Visits)	PM10E as DPM Running Exhaust Factor[5] (g/mi)	Distance On-Site Circulation per Visit (mi)	DPM Running Exhaust (lb/trip)	DPM Emissions (lb/day)	DPM Emissions (lb/year)	DPM Emissions (lb/hr)
LHDT1	19.80%	15.7	7.9	0.027231	0.15	8.86E-06	6.97E-05	0.025	2.90E-06
LHDT2	4.90%	3.9	1.9	0.030583	0.15	9.95E-06	1.94E-05	0.007	8.07E-07
MHDT	20.70%	16.4	8.2	0.007231	0.15	2.35E-06	1.93E-05	0.007	8.06E-07
HHDT	54.60%	43.4	21.7	0.007251	0.15	2.36E-06	5.12E-05	0.019	2.13E-06
Truck Subtotal	100.0%	79.5	39.7	—	—	—	1.60E-04	0.058	**6.65E-06**

Notes:

1. Conservatively modeled all PM10E as diesel. Non-diesel vehicles have low PM10E so this is a reasonable, but conservative , assumption.
2. Warehouse Building modeled as Light Warehouse.
3. Truck Fleet Mix based on Fontana Truck Trip Generation Study.
4. PM10 Exhaust Idle Exhaust Emission Factor from EMFAC2021-PL for Diesel Fueled Vehicles in Each Large Truck Category.
5 . PM10 Running Exhaust Emission Factor from EMFAC2021-PL for **5 mph** for Diesel Fueled Vehicles in Each Large Truck Category

2334 Lundy Place Project

DPM from On-Site Idling at Dock

Project Truck Trips	**79.5**	**Trips/day**

Vehicle Fleet

	Project Trucks Vehicle Mix[3]	Project Trucks Daily One Way Trips	Project Truck Round Trips (Visits)	PM10E as DPM Running Exhaust Factor[5] (g/mi)	Off-Site Distance within 1,000 ft (mi)	DPM Running Exhaust (lb/trip)	DPM Emissions (lb/day)	DPM Emissions (lb/year)	DPM Emissions (lb/hr)
LHDT1	**19.8%**	15.7	7.9	0.017754	0.22	8.60E-06	6.77E-05	0.02	2.82E-06
LHDT2	**4.9%**	3.9	1.9	0.021345	0.22	1.03E-05	2.01E-05	0.01	8.39E-07
MHDT	**20.7%**	16.4	8.2	0.003987	0.22	1.93E-06	1.59E-05	0.006	6.62E-07
HHDT	**54.6%**	43.4	21.7	0.004635	0.22	2.25E-06	9.74E-05	0.036	4.06E-06
Truck Subtotal	100.0%	79.5	29.9	—	—	—	2.01E-04	0.073	8.38131E-06

Notes:

1. Conservatively modeled all PM10E as diesel. Non-diesel vehicles have low PM10E so this is a reasonable, but conservative , assumption.
2. Warehouse Building modeled as Light Warehouse.
3. Truck Fleet Mix based on Fontana Truck Trip Generation Study.
4. PM10 Exhaust Idle Exhaust Emission Factor from EMFAC2021-PL for Diesel Fueled Vehicles in Each Large Truck Category.
5 . PM10 Running Exhaust Emission Factor from EMFAC2021-PL for **15 mph** for Diesel Fueled Vehicles in Each Large Truck Category

2334 Lundy Place Project

DPM from On-Site Idling at Dock

Project Truck Trips	**79.5**	**Trips/day**

Vehicle Fleet

	Project Trucks Vehicle Mix[3]	Project Trucks Daily One Way Trips	Project Truck Round Trips (Visits)	PM10E as DPM Running Exhaust Factor[5] (g/mi)	Off-Site Distance within 1,000 ft (mi)	DPM Running Exhaust (lb/trip)	DPM Emissions (lb/day)	DPM Emissions (lb/year)	DPM Emissions (lb/hr)
LHDT1	**19.8%**	15.7	7.9	0.017754	1.04	4.06E-05	3.19E-04	0.12	1.33E-05
LHDT2	**4.9%**	3.9	1.9	0.021345	1.04	4.88E-05	9.49E-05	0.03	3.95E-06
MHDT	**20.7%**	16.4	8.2	0.003987	1.04	9.11E-06	7.49E-05	0.027	3.12E-06
HHDT	**54.6%**	43.4	21.7	0.004635	1.04	1.06E-05	4.59E-04	0.168	1.91E-05
Truck Subtotal	100.0%	79.5	29.9	—	—	—	9.48E-04	0.346	3.95E-05

Notes:

1. Conservatively modeled all PM10E as diesel. Non-diesel vehicles have low PM10E so this is a reasonable, but conservative , assumption.
2. Warehouse Building modeled as Light Warehouse.
3. Truck Fleet Mix based on Fontana Truck Trip Generation Study.
4. PM10 Exhaust Idle Exhaust Emission Factor from EMFAC2021-PL for Diesel Fueled Vehicles in Each Large Truck Category.
5 . PM10 Running Exhaust Emission Factor from EMFAC2021-PL for **15 mph** for Diesel Fueled Vehicles in Each Large Truck Category

2334 Lundy Place Project

DPM from On-Site Idling at Dock

						Initial Source Release Parameters[1] (m)								
Source ID	Modeled Source	Location Description	Source Type	Size[3]		Truck Height (m)	Road Width (m)	Release Height	Initial Lateral Dimension	Initial Vertical Dimension	Annual Emissions (lb/yr)	Average Hourly Emissions[2] (lb/hr)	AERMOD Source Emission Rate[2]	
DOCK	Loading Dock - Idle Exhaust	Loading Dock Area	Area	1379.6	m2	4	—	3.4	—	3.16	1.63	1.86E-04	1.7E-08	g/m2-sec
ON-SITE	Running Exhaust	On-Site Travel	Line Volume		m	4	10.97	3.4	7.89	3.16	0.06	6.65E-06	8.38E-07	g/s
OFF-SITE	Running Exhaust	Off-Site Truck - Trade Zone Blvd	Line Volume		m	4	20	3.4	12.09	3.16	0.35	3.95E-05	4.98E-06	g/s
OFF-SITE	Running Exhaust	Off-Site Truck - Lundy Place	Line Volume		m	4	10	3.4	7.44	3.16	0.07	8.38E-06	1.06E-06	g/s
EGEN	Emergency Generator	See Site Plan - Outside Electrical Room	Point	0.13	m	—	—	3			1.09	1.24E-04	1.56E-05	g/s
											3.20			

Notes:

1. Idling trucks at loading docks modeled as an elevated area source using parameters for trucks as column sources (BAAQMD CEQA Guidelines, Appendix E, Table 11).
2. Source emissions calculated using truck trip rates, fleet mix, and operational emissions using EMFAC-PL idling rates. See particulate matter (DPM) emissions from idling trucks.
3. Release Height and exhaust parameter for generator of same size with horizontal release from ARB/CAPCOA DICE Tool.
4. Emergency Generator Emissions are based on 300 hp Generator, 73% Load Factor, 150 hours and Tier 4 Emission Factor of 0.015 g/bhphr = 1.09 lb DPM/yr. Consistent with BAAQMD Permitting and BACT Guidelines.

2334 Lundy Place Project

DPM from On-Site Idling at Dock

calendar_year	season_month	sub_area	vehicle_class	temperature	relative_humidity	process	speed_time	pollutant	emission_rate
2027	Annual	Santa Clara (SF)	MHDT			IDLEX		PM10	0.014571483
2027	Annual	Santa Clara (SF)	MHDT			PMBW	90	PM10	0.041089645
2027	Annual	Santa Clara (SF)	MHDT			PMBW	90	PM	0.041089645
2027	Annual	Santa Clara (SF)	LHDT2			IDLEX		PM10	0.612881509
2027	Annual	Santa Clara (SF)	LHDT1			IDLEX		PM10	0.328480287
2027	Annual	Santa Clara (SF)	HHDT			IDLEX		PM10	0.007422385
2027	Annual	Santa Clara (SF)	MHDT	77	50	RUNEX	5	PM10	0.007230708
2027	Annual	Santa Clara (SF)	LHDT2	77	50	RUNEX	5	PM10	0.030582982
2027	Annual	Santa Clara (SF)	LHDT1	77	50	RUNEX	5	PM10	0.027230852
2027	Annual	Santa Clara (SF)	HHDT	77	50	RUNEX	5	PM10	0.00725122
2027	Annual	Santa Clara (SF)	MHDT	77	50	RUNEX	10	PM10	0.005621525
2027	Annual	Santa Clara (SF)	LHDT2	77	50	RUNEX	10	PM10	0.025471808
2027	Annual	Santa Clara (SF)	LHDT1	77	50	RUNEX	10	PM10	0.02181971
2027	Annual	Santa Clara (SF)	HHDT	77	50	RUNEX	10	PM10	0.006018146
2027	Annual	Santa Clara (SF)	MHDT	77	50	RUNEX	15	PM10	0.003986551
2027	Annual	Santa Clara (SF)	LHDT2	77	50	RUNEX	15	PM10	0.021344658
2027	Annual	Santa Clara (SF)	LHDT1	77	50	RUNEX	15	PM10	0.017753511
2027	Annual	Santa Clara (SF)	HHDT	77	50	RUNEX	15	PM10	0.004634635

Control Pathway

AERMOD

Dispersion Options

Titles

2234 Lundy Place Industrial Warehouse Project
Operational HRA

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

Averaging Time Options

Hours ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

☐ Re-Start File ☐ Init File ☐ Multi-Year Analyses ☐ Event Input File ☑ Error Listing File

Detailed Error Listing File

Filename: OpHRA.err

Source Pathway - Source Inputs

AERMOD

Point Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp. [K]	Gas Exit Velocity [m/s]	Stack Inside Diameter [m]
POINT	EGEN	598235.55	4140295.14	15.67	3.00	0.00002	789.00	57.40	0.13
		Emergency Generator							

Area Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Length of X Side [m]	Length of Y Side [m]	Orientation Angle from North [deg]	Initial Vertical Dim. [m]
AREA	DOCK	598245.46	4140279.00	16.01	3.40	1.70E-8	82.30	16.76	5.00	3.15
		lding Trucks								

Source Pathway - Source Inputs

AERMOD

Line Volume Sources

Source Type: LINE VOLUME

Source: ONSITE (On-Site Truck Circulation)

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]
16.97	8.38E-7		598247.72	4140359.68	15.56	5.78
			598280.22	4140333.61	15.73	5.78
			598359.57	4140273.91	16.26	5.78
			598381.48	4140258.41	16.36	5.78
			598392.06	4140248.97	16.48	5.78
			598395.84	4140244.43	16.47	5.78
			598396.60	4140234.99	16.63	5.78
			598395.84	4140225.54	16.71	5.78
			598393.57	4140194.93	17.00	5.78

Source Type: LINE VOLUME

Source: ROAD1 (Lundy Place)

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]
16.00	1.06E-6	Surface-Based	598187.65	4140207.62	15.78	3.40
			598189.51	4140272.59	15.55	3.40
			598204.36	4140310.64	15.61	3.40
			598246.12	4140368.19	15.53	3.40

Source Pathway - Source Inputs

AERMOD

Source Type: LINE VOLUME
Source: ROAD2 (Trade Zone Blvd)

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]
26.00	4.98E-6	Surface-Based	597901.85	4140219.34	13.58	3.40
			598008.34	4140212.25	14.36	3.40
			598155.91	4140195.55	15.31	3.40
			598206.95	4140191.84	15.90	3.40
			598416.70	4140175.13	17.32	3.40
			598535.49	4140163.99	18.78	3.40
			598674.70	4140150.07	19.34	3.40
			598712.75	4140147.29	19.70	3.40
			598732.24	4140145.43	19.98	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 Dimencion [m]	Initial Vertical Dimencion [m]
ROAD1	L0000590	598187.88	4140215.62	15.75	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000591	598188.34	4140231.61	15.70	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000592	598188.80	4140247.61	15.64	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000593	598189.25	4140263.60	15.58	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000594	598192.06	4140279.12	15.56	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000595	598197.87	4140294.02	15.58	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000596	598203.69	4140308.93	15.61	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000597	598212.68	4140322.10	15.59	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000598	598222.08	4140335.05	15.58	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000599	598231.47	4140348.00	15.56	3.40	9.60E-8	16.00	Surface-Based	7.44	3.16
	L0000600	598240.87	4140360.95	15.54	3.40	9.60E-8	16.00	Surface-Based	7.44	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	L0000601	597914.82	4140218.48	13.68	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000602	597940.76	4140216.75	13.87	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000603	597966.71	4140215.03	14.06	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000604	597992.65	4140213.30	14.25	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000605	598018.55	4140211.10	14.43	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000606	598044.38	4140208.17	14.59	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000607	598070.22	4140205.25	14.76	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000608	598096.05	4140202.32	14.92	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000609	598121.89	4140199.40	15.09	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000610	598147.72	4140196.47	15.26	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000611	598173.62	4140194.26	15.51	3.40	1.56E-7	26.00	Surface-Based	12.09	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	L0000612	598199.56	4140192.37	15.81	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000613	598225.48	4140190.36	16.03	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000614	598251.40	4140188.30	16.20	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000615	598277.31	4140186.23	16.38	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000616	598303.23	4140184.17	16.55	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000617	598329.15	4140182.10	16.73	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000618	598355.07	4140180.04	16.90	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000619	598380.98	4140177.97	17.08	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000620	598406.90	4140175.91	17.25	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000621	598432.80	4140173.62	17.52	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000622	598458.69	4140171.19	17.84	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000623	598484.57	4140168.77	18.15	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000624	598510.46	4140166.34	18.47	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000625	598536.35	4140163.91	18.78	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000626	598562.22	4140161.32	18.89	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000627	598588.09	4140158.73	18.99	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000628	598613.96	4140156.15	19.10	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000629	598639.83	4140153.56	19.20	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000630	598665.70	4140150.97	19.30	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000631	598691.61	4140148.84	19.50	3.40	1.56E-7	26.00	Surface-Based	12.09	3.16
	L0000632	598717.53	4140146.83	19.77	3.40	1.56E-7	26.00	Surface-Based	12.09	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]
ONSITE	L0000633	598254.34	4140354.37	15.59	5.78	5.98E-8	16.97		7.89	5.38
	L0000634	598267.58	4140343.75	15.66	5.78	5.98E-8	16.97		7.89	5.38

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]
ONSITE	L0000635	598280.83	4140333.14	15.73	5.78	5.98E-8	16.97		7.89	5.38
	L0000636	598294.39	4140322.94	15.82	5.78	5.98E-8	16.97		7.89	5.38
	L0000637	598307.96	4140312.74	15.92	5.78	5.98E-8	16.97		7.89	5.38
	L0000638	598321.52	4140302.53	16.01	5.78	5.98E-8	16.97		7.89	5.38
	L0000639	598335.08	4140292.33	16.10	5.78	5.98E-8	16.97		7.89	5.38
	L0000640	598348.65	4140282.12	16.19	5.78	5.98E-8	16.97		7.89	5.38
	L0000641	598362.27	4140272.00	16.27	5.78	5.98E-8	16.97		7.89	5.38
	L0000642	598376.13	4140262.20	16.34	5.78	5.98E-8	16.97		7.89	5.38
	L0000643	598389.25	4140251.48	16.45	5.78	5.98E-8	16.97		7.89	5.38
	L0000644	598396.42	4140237.16	16.59	5.78	5.98E-8	16.97		7.89	5.38
	L0000645	598395.45	4140220.23	16.76	5.78	5.98E-8	16.97		7.89	5.38
	L0000646	598394.19	4140203.31	16.92	5.78	5.98E-8	16.97		7.89	5.38

Building Downwash Information

Source ID: EGEN

Heights [m] (10 to 360 deg)

10-60 deg	12.19	12.19	12.19	12.19	12.19	12.19
70-120 deg	12.19	12.19	12.19	12.19	12.19	12.19
130-180 deg	12.19	12.19	12.19	12.19	12.19	12.19
190-240 deg	12.19	12.19	12.19	12.19	12.19	12.19
250-300 deg	12.19	12.19	12.19	12.19	12.19	12.19
310-360 deg	12.19	12.19	12.19	12.19	12.19	12.19

Widths [m] (10 to 360 deg)

10-60 deg	180.30	188.97	191.89	188.99	180.34	166.21
70-120 deg	147.03	123.39	95.99	83.39	100.52	117.81
130-180 deg	132.46	149.81	164.52	174.23	178.85	178.18
190-240 deg	180.30	188.97	191.89	188.99	180.34	166.21
250-300 deg	147.03	123.39	95.99	83.39	100.52	117.81
310-360 deg	132.46	149.81	164.52	174.23	178.85	178.18

Lengths [m] (10 to 360 deg)

10-60 deg	83.39	100.52	117.81	132.46	149.81	164.52
70-120 deg	174.23	178.85	178.18	180.30	188.97	191.89
130-180 deg	188.99	180.34	166.21	147.03	123.39	95.99
190-240 deg	83.39	100.52	117.81	132.46	149.81	164.52
250-300 deg	174.23	178.85	178.18	180.30	188.97	191.89
310-360 deg	188.99	180.34	166.21	147.03	123.38	95.99

Along Flow [m] (10 to 360 deg)

10-60 deg	-85.03	-84.31	-81.04	-75.30	-67.84	-60.23
70-120 deg	-50.79	-40.01	-28.15	-20.55	-19.57	-17.99
130-180 deg	-15.86	-13.26	-10.25	-6.93	-3.39	0.24
190-240 deg	1.64	-16.21	-36.77	-57.16	-81.97	-104.29
250-300 deg	-123.45	-138.85	-150.03	-159.75	-169.40	-173.91
310-360 deg	-173.12	-167.08	-155.96	-140.10	-119.99	-96.23

Across Flow [m] (10 to 360 deg)

10-60 deg	-69.60	-74.92	-77.96	-78.63	-76.91	-72.86
70-120 deg	-66.59	-58.30	-48.23	-43.33	-34.05	-22.13
130-180 deg	-9.07	7.07	22.03	36.33	49.42	60.94
190-240 deg	69.60	74.92	77.96	78.63	76.91	72.86
250-300 deg	66.59	58.30	48.23	43.33	34.05	22.13
310-360 deg	9.07	-7.07	-22.03	-36.33	-49.42	-60.94

Source Pathway

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: DPM	List of Sources in Group (Source Range or Single Sources)
	ROAD2
	ROAD1
	EGEN
	ONSITE
	DOCK

Source Group ID: ALL	List of Sources in Group (Source Range or Single Sources)
	All Sources Included

Receptor Pathway

Receptor Networks

Note: Terrain Elavations 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	598463.91	4140609.19	BU	17.12	
2	598476.11	4140607.42	CO	17.20	
3	598468.81	4140605.09	RT	17.17	
4	598476.01	4140599.09	BU	17.20	
5	598532.97	4140596.61	BU	17.32	
6	598479.74	4140596.37	RT	17.21	
7	598535.37	4140594.72	RT	17.30	
8	598542.01	4140589.38	RL	17.27	
9	598545.79	4140586.76	CO	17.28	
10	598552.09	4140582.13	BU	17.33	
11	598556.52	4140579.15	BU	17.36	
12	598561.66	4140575.42	RT	17.38	
13	598422.67	4140561.96	RT	16.79	
14	598598.95	4140561.37	SF	18.17	
15	598426.26	4140559.64	RT	16.80	
16	598422.26	4140556.52	BU	16.80	
17	598430.57	4140556.38	BU	16.79	
18	598426.80	4140553.97	BU	16.81	
19	598586.35	4140550.09	SF	18.17	
20	598428.33	4140545.01	CO	16.74	
21	598565.08	4140533.93	RT	18.22	
22	598625.76	4140527.63	SF	18.49	
23	598640.82	4140518.53	SF	18.51	
24	598653.26	4140506.27	SF	18.67	
25	598603.37	4140504.40	MF	18.39	
26	598602.09	4140502.37	MF	18.42	
27	598601.04	4140500.82	MF	18.41	
28	598599.27	4140499.03	MF	18.39	
29	598618.82	4140492.64	MF	18.56	
30	598617.78	4140490.38	MF	18.59	

31	598616.73	4140488.36	MF	18.61
32	598615.21	4140486.57	MF	18.61
33	598633.33	4140481.23	MF	18.80
34	598631.56	4140479.08	MF	18.82
35	598629.45	4140477.28	MF	18.82
36	598628.28	4140475.61	MF	18.81
37	598648.52	4140470.89	MF	18.93
38	598495.46	4140469.91	BU	17.09
39	598646.53	4140468.73	MF	18.95
40	598498.56	4140467.82	BU	17.11
41	598644.30	4140466.23	MF	18.96
42	598642.20	4140463.72	MF	18.95
43	598660.88	4140459.80	MF	19.04
44	598658.77	4140457.30	MF	19.04
45	598657.01	4140455.62	MF	19.04
46	598668.53	4140455.16	MF	19.11
47	598691.10	4140441.13	SF	19.66
48	598679.43	4140434.55	SF	19.55
49	598473.97	4140419.54	BU	16.51
50	598700.89	4140416.21	SF	19.53
51	598603.26	4140387.47	BU	18.86
52	598652.64	4140367.72	BU	18.78
53	598351.22	4140364.17	BU	16.45
54	598557.18	4140361.35	BU	18.31
55	598561.20	4140357.54	BU	18.32
56	598654.56	4140355.21	BU	18.79
57	598566.17	4140353.74	BU	18.32
58	598568.97	4140349.76	BU	18.34
59	598574.32	4140346.42	BU	18.32
60	598580.14	4140342.91	BU	18.31
61	598585.00	4140338.92	BU	18.32
62	598560.52	4140335.97	CO	18.18
63	598588.72	4140334.82	BU	18.33
64	598535.82	4140333.41	BU	18.16
65	598593.42	4140330.97	BU	18.34
66	598717.04	4140329.54	MF	20.17
67	598598.40	4140327.27	BU	18.38
68	598545.33	4140327.10	BU	18.21

69	598714.13	4140325.62	MF	20.19
70	598602.39	4140323.72	BU	18.42
71	598710.65	4140321.88	MF	20.20
72	598549.73	4140320.26	BU	18.19
73	598605.88	4140319.02	BU	18.49
74	598707.51	4140318.50	MF	20.20
75	598557.48	4140315.07	BU	18.19
76	598704.66	4140314.47	MF	20.19
77	598561.08	4140310.14	BU	18.19
78	598701.65	4140309.65	MF	20.17
79	598627.42	4140308.53	BU	18.67
80	598730.13	4140306.94	MF	20.40
81	598698.76	4140305.76	MF	20.15
82	598567.32	4140305.18	BU	18.20
83	598726.57	4140303.03	MF	20.42
84	598695.76	4140302.46	MF	20.14
85	598620.02	4140300.58	BU	18.63
86	598723.72	4140299.56	MF	20.41
87	598574.74	4140299.02	BU	18.24
88	598692.49	4140298.64	MF	20.12
89	598720.76	4140295.50	MF	20.40
90	598688.86	4140294.84	MF	20.12
91	598615.96	4140293.80	BU	18.62
92	598582.14	4140293.21	BU	18.33
93	598717.88	4140292.81	MF	20.38
94	598686.49	4140290.69	MF	20.10
95	598753.00	4140289.41	MF	20.66
96	598611.14	4140289.07	BU	18.62
97	598715.03	4140288.96	MF	20.37
98	598683.17	4140286.44	MF	20.07
99	598749.86	4140285.68	MF	20.68
100	598711.94	4140284.22	MF	20.37
101	598607.54	4140283.04	BU	18.62
102	598680.75	4140282.71	MF	19.98
103	598747.06	4140282.06	MF	20.66
104	598709.19	4140280.58	MF	20.36
105	598743.99	4140278.08	MF	20.61
106	598603.93	4140277.36	BU	18.63

107	598706.41	4140276.80	MF	20.36
108	598740.83	4140274.06	MF	20.62
109	598703.04	4140273.22	MF	20.34
110	598600.21	4140271.69	BU	18.61
111	598737.77	4140269.97	MF	20.59
112	598518.65	4140269.97	BU	18.26
113	598700.13	4140268.98	MF	20.33
114	598755.09	4140268.13	MF	20.84
115	598734.35	4140266.40	MF	20.57
116	598752.77	4140265.30	MF	20.83
117	598666.49	4140264.66	MF	19.70
118	598731.28	4140262.89	MF	20.57
119	598749.53	4140262.05	MF	20.81
120	598663.23	4140261.67	MF	19.70
121	598728.48	4140258.50	MF	20.52
122	598746.25	4140257.06	MF	20.80
123	598660.42	4140256.69	MF	19.69
124	598726.00	4140256.01	MF	20.52
125	598742.70	4140252.85	MF	20.76
126	598657.93	4140252.68	MF	19.67
127	598723.21	4140251.69	MF	20.51
128	598684.68	4140251.56	MF	19.94
129	598653.60	4140249.09	MF	19.66
130	598720.33	4140248.00	MF	20.47
131	598681.76	4140247.39	MF	19.91
132	598737.21	4140246.44	MF	20.67
133	598650.25	4140245.37	MF	19.67
134	598717.03	4140244.36	MF	20.48
135	598679.28	4140243.13	MF	19.93
136	598734.24	4140242.67	MF	20.64
137	598647.75	4140241.87	MF	19.66
138	598675.34	4140239.75	MF	19.88
139	598731.18	4140238.57	MF	20.62
140	598645.19	4140237.13	MF	19.65
141	598672.62	4140236.09	MF	19.87
142	598729.11	4140235.26	MF	20.61
143	598642.50	4140233.72	MF	19.67
144	598709.26	4140233.14	MF	20.35

145	598668.82	4140232.44	MF	19.84
146	598725.82	4140230.88	MF	20.59
147	598639.56	4140230.00	MF	19.71
148	598705.94	4140229.60	MF	20.30
149	598667.59	4140229.11	MF	19.86
150	598722.72	4140227.46	MF	20.58
151	598583.02	4140227.13	BU	18.31
152	598702.70	4140225.76	MF	20.23
153	598663.98	4140225.19	MF	19.84
154	598719.80	4140223.53	MF	20.53
155	598580.42	4140222.71	BU	18.27
156	598699.82	4140222.08	MF	20.23
157	598661.24	4140221.74	MF	19.82
158	598697.14	4140217.95	MF	20.19
159	598658.25	4140217.64	MF	19.77
160	598634.48	4140217.62	NEARSF	19.62
161	598713.30	4140215.21	MF	20.38
162	598693.76	4140214.25	MF	20.17
163	598755.18	4140213.61	SF	20.75
164	598634.98	4140212.71	NEARSF	19.60
165	598571.63	4140211.62	BU	18.25
166	598710.57	4140211.34	MF	20.35
167	598752.84	4140211.30	SF	20.76
168	598691.24	4140211.28	MF	20.17
169	598750.39	4140208.52	SF	20.74
170	598707.72	4140208.07	MF	20.32
171	598633.09	4140207.84	NEARSF	19.62
172	598688.10	4140207.32	MF	20.13
173	598438.00	4140212.00	BU	17.84
174	598747.95	4140206.09	SF	20.73
175	598704.11	4140203.82	MF	20.32
176	598685.20	4140203.54	MF	20.11
177	598632.35	4140202.99	NEARSF	19.61
178	598702.17	4140200.71	MF	20.31
179	598682.11	4140199.48	MF	20.05
180	598633.33	4140197.98	NEARSF	19.57
181	598698.81	4140197.32	MF	20.30
182	598631.48	4140193.04	NEARSF	19.50

183	598695.64	4140192.56	MF	20.25
184	598692.13	4140188.89	MF	20.12
185	598721.81	4140183.95	SF	20.42
186	598725.53	4140183.70	SF	20.44
187	598729.66	4140183.34	SF	20.46
188	598733.39	4140182.81	SF	20.47
189	598737.12	4140182.61	SF	20.49
190	598741.80	4140182.53	SF	20.54
191	598645.48	4140175.40	MF	19.53
192	598650.04	4140175.02	MF	19.58
193	598654.85	4140174.75	MF	19.61
194	598659.83	4140174.27	MF	19.61
195	598669.73	4140173.55	MF	19.65
196	598664.96	4140173.55	MF	19.61
197	598674.74	4140172.62	MF	19.62
198	598679.42	4140172.53	MF	19.61
199	598056.73	4140149.25	BU	15.43
200	598138.08	4140135.06	BU	16.01
201	598069.65	4140135.09	BU	15.49
202	598322.69	4140134.45	BU	17.52
203	598249.40	4140133.85	BU	16.92
204	598153.54	4140133.14	BU	16.11
205	598084.29	4140132.55	BU	15.42
206	598573.85	4140132.31	NEARSF	19.60
207	598563.52	4140132.30	NEARSF	19.52
208	598583.69	4140131.60	NEARSF	19.58
209	598143.69	4140125.63	BU	16.03
210	598593.78	4140130.90	NEARSF	19.58
211	598603.96	4140130.11	NEARSF	19.62
212	598340.75	4140129.06	BU	17.57
213	598613.89	4140129.05	NEARSF	19.67
214	598623.72	4140128.07	NEARSF	19.69
215	598633.91	4140127.02	NEARSF	19.74
216	598644.81	4140125.89	NEARSF	19.77
217	598356.06	4140122.61	BU	17.60
218	598682.87	4140121.24	MF	19.81
219	598680.34	4140121.22	MF	19.80
220	598688.51	4140120.19	MF	19.83

221	598250.52	4140119.96		16.74
222	598690.53	4140119.95	MF	19.83
223	598697.10	4140119.54	MF	19.82
224	598699.74	4140119.17	MF	19.82
225	598706.23	4140119.03	MF	19.80
226	598708.25	4140118.73	MF	19.81
227	598371.66	4140117.35	BU	17.72
228	598149.98	4140110.73	BU	16.08
229	598132.04	4140113.76	BU	16.04
230	598136.29	4140112.05	BU	16.04
231	598677.95	4140112.30	MF	19.81
232	598688.12	4140111.78	MF	19.85
233	598680.54	4140111.68	MF	19.84
234	598689.90	4140111.36	MF	19.85
235	598697.56	4140111.20	MF	19.87
236	598699.45	4140110.89	MF	19.87
237	598705.21	4140110.09	MF	19.86
238	598708.29	4140109.91	MF	19.87
239	598137.52	4140104.57	BU	15.98
240	598367.56	4140103.39	BU	17.78
241	598575.34	4140103.01	SF	19.56
242	598585.37	4140101.51	SF	19.62
243	598595.73	4140100.55	SF	19.65
244	598605.84	4140099.49	SF	19.69
245	598615.40	4140098.69	SF	19.72
246	598626.10	4140098.44	SF	19.71
247	598330.47	4140096.88	BU	17.75
248	598451.70	4140094.72	BU	18.52
249	598685.42	4140094.21	MF	19.82
250	598688.55	4140092.75	MF	19.81
251	598692.32	4140087.61	MF	19.85
252	598679.30	4140086.42	MF	19.83
253	598694.87	4140086.41	MF	19.87
254	598369.44	4140085.86	BU	17.85
255	598680.93	4140084.64	MF	19.84
256	598687.33	4140081.57	MF	19.83
257	598330.51	4140080.94	BU	17.81
258	598675.63	4140079.94	MF	19.84

259	598689.87	4140079.35	MF	19.83
260	598633.74	4140078.62	MF	19.76
261	598677.92	4140078.15	MF	19.85
262	598590.25	4140077.61	SF	19.86
263	598681.12	4140075.42	MF	19.86
264	598636.57	4140074.99	MF	19.79
265	598683.96	4140073.75	MF	19.84
266	598031.51	4140073.30	BU	15.59
267	598599.30	4140073.16	SF	19.87
268	598668.33	4140072.72	MF	19.79
269	598639.82	4140071.31	MF	19.87
270	598629.71	4140071.24	MF	19.77
271	598371.21	4140070.80	BU	17.84
272	598671.73	4140070.65	MF	19.81
273	598631.28	4140068.18	MF	19.75
274	598643.60	4140067.69	MF	19.84
275	598676.38	4140066.49	MF	19.84
276	598635.70	4140065.76	MF	19.80
277	598333.42	4140065.37	BU	17.72
278	598678.02	4140065.07	MF	19.85
279	598606.32	4140064.78	SF	19.71
280	598647.44	4140064.36	MF	19.79
281	598638.29	4140063.31	MF	19.84
282	598651.63	4140061.04	MF	19.72
283	598641.61	4140061.00	MF	19.85
284	598646.16	4140057.68	MF	19.78
285	598254.36	4140054.35	BU	17.26
286	598371.91	4140053.72	BU	17.78
287	598334.47	4140050.43	BU	17.65
288	598515.97	4140039.20	BU	18.86
289	598643.58	4140038.95	MF	19.79
290	598645.15	4140037.78	MF	19.79
291	598458.75	4140033.56	BU	18.76
292	598526.73	4140033.52	BU	18.86
293	598649.27	4140033.34	MF	19.80
294	598537.23	4140032.62	BU	18.92
295	598638.45	4140031.83	MF	19.82
296	598651.60	4140031.53	MF	19.82

297	598480.43	4140030.44	BU	18.88
298	598640.49	4140030.32	MF	19.83
299	598449.99	4140026.65	BU	18.78
300	598546.35	4140026.28	BU	18.94
301	598645.76	4140026.16	MF	19.82
302	598647.36	4140025.47	MF	19.82
303	598472.16	4140024.73	BU	18.85
304	598632.74	4140024.39	MF	19.82
305	598634.31	4140022.92	MF	19.82
306	598637.83	4140020.28	MF	19.83
307	598627.58	4140019.12	MF	19.80
308	598639.51	4140018.87	MF	19.83
309	598628.90	4140017.54	MF	19.81
310	598632.58	4140013.55	MF	19.84
311	598634.43	4140011.73	MF	19.85
312	598523.12	4139997.71	BU	18.96
313	598101.84	4139996.49	BU	16.98
314	598112.29	4139991.60	BU	17.04
315	598451.89	4139989.60	BU	18.84
316	598397.17	4139987.43	BU	18.64
317	598523.82	4139986.62	BU	18.97
318	598465.81	4139985.23	BU	19.00
319	598309.43	4139983.62	BU	18.08
320	598475.59	4139981.38	BU	18.98
321	598221.68	4139977.04	BU	17.19
322	598484.63	4139976.94	BU	18.95
323	598519.92	4139976.07	BU	19.00
324	598520.57	4139964.69	BU	19.03
325	597896.95	4139838.84	ED	15.44
326	598083.76	4140585.50		13.89
327	598052.78	4140504.46		14.28
328	598067.08	4140368.62		14.70
329	598146.92	4140317.37		15.22
330	598111.17	4140261.37		15.57
331	598154.07	4140316.18		15.26
332	598303.02	4140384.11		16.12
333	597964.59	4140422.24		14.16
334	598200.85	4140378.43	NEARSF	15.81

335	598208.93	4140389.00	NEARSF	15.79
336	598291.05	4140458.06	NEARSF	15.63
337	598299.14	4140469.25	NEARSF	15.67
338	598281.10	4140483.56	SF	16.03
339	598276.12	4140473.61	SF	15.99
340	598246.26	4140468.63	SF	16.01
341	598236.31	4140454.94	SF	16.01
342	598222.62	4140438.77	SF	15.92
343	598269.28	4140495.38	SF	16.02
344	598259.95	4140483.56	SF	16.01
345	598252.48	4140515.29	SF	16.03
346	598246.26	4140499.74	SF	16.02
347	598227.60	4140477.96	SF	16.02
348	598216.40	4140467.39	SF	15.78
349	598206.45	4140456.19	SF	15.07
350	598291.67	4140509.07	SF	16.18
351	598282.34	4140522.13	SF	16.20
352	598271.14	4140530.22	SF	16.15
353	598251.24	4140514.67	SF	16.02
354	598243.77	4140505.96	SF	16.03
355	598231.95	4140530.22	SF	15.48
356	598214.53	4140535.19	SF	15.32
357	598226.35	4140511.55	SF	15.64
358	598212.04	4140517.78	SF	15.10
359	598214.53	4140494.14	SF	15.27
360	598202.09	4140499.74	SF	14.71
361	598182.18	4140421.97	SF	15.40
362	598160.41	4140418.24	SF	15.47
363	598176.59	4140443.75	SF	15.72
364	598153.57	4140441.26	SF	15.61
365	598172.23	4140472.99	SF	15.49
366	598146.10	4140469.88	SF	15.41
367	598172.23	4140492.89	SF	15.43
368	598147.35	4140486.67	SF	15.23
369	598166.01	4140512.18	SF	15.42
370	598146.73	4140516.53	SF	15.24
371	598176.59	4140532.08	SF	15.40
372	598158.54	4140538.30	SF	15.36

373	598252.35	4140547.33	SF	16.07	
374	598233.68	4140555.41	SF	15.97	
375	598213.77	4140558.53	SF	15.76	
376	598194.49	4140567.23	SF	15.62	
377	598177.07	4140574.70	SF	15.70	
378	598165.25	4140576.57	SF	15.59	
379	598150.32	4140582.17	SF	15.27	
380	598140.37	4140562.88	SF	14.80	
381	598131.04	4140548.57	SF	14.65	
382	598120.46	4140529.91	SF	14.43	
383	598118.59	4140494.45	SF	14.65	
384	598120.46	4140474.54	SF	14.75	
385	598124.19	4140429.13	SF	15.08	
386	598127.30	4140411.71	SF	15.18	
387	598137.26	4140394.91	SF	15.31	
388	598149.70	4140386.20	SF	15.45	
389	598164.01	4140372.52	SF	15.47	
390	598174.58	4140363.19	NEARSF	15.42	
391	598184.54	4140352.61	NEARSF	15.38	
392	598001.35	4140351.30		14.26	
393	598005.40	4140303.69		14.63	
394	598004.39	4140248.98		14.75	
395	597978.05	4140254.05		14.67	
396	597980.08	4140309.76		14.49	
397	597974.00	4140358.39		14.25	
398	597944.62	4140358.39		14.33	
399	597946.65	4140303.69		14.59	
400	597944.62	4140258.10		14.56	
401	597917.27	4140257.09		14.56	
402	597922.33	4140315.84		14.49	
403	597920.31	4140351.30		14.19	
404	598229.38	4140384.67	NEARSF	16.02	
405	598223.10	4140376.83	NEARSF	16.14	
406	598214.64	4140361.77	NEARSF	16.34	

Plant Boundary Receptors

Receptor Pathway

Receptor Groups

Record Number	Group ID	Group Description
1	MF	
2	SF	
3	MH	
4	BU	
5	GO	
6	CO	
7	MI	
8	RE	
9	ED	
10	FB	
11	RT	
12	RL	
13	HT	
14	TR	
15	NEARSF	

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

2234 Lundy Place Industrial Warehouse Project
Operational HRA

PM10 - Concentration - Source Group: DPM

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00336	ug/m^3	598214.64	4140361.77	16.34	0.00	16.34	

Sensitive Receptor Summary

2234 Lundy Place Industrial Warehouse Project
Operational HRA

PM10 - Concentration - Source Group: DPM

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00255	ug/m^3	MEIW	598438.00	4140212.00	17.84	0.00	17.84	
PERIOD		0.00112	ug/m^3	SF	598573.85	4140132.31	19.60	0.00	19.60	
PERIOD		0.00116	ug/m^3	SF	598563.52	4140132.30	19.52	0.00	19.52	
PERIOD		0.00108	ug/m^3	SF	598583.69	4140131.60	19.58	0.00	19.58	
PERIOD		0.00105	ug/m^3	SF	598593.78	4140130.90	19.58	0.00	19.58	
PERIOD		0.00101	ug/m^3	SF	598603.96	4140130.11	19.62	0.00	19.62	
PERIOD		0.00097	ug/m^3	SF	598613.89	4140129.05	19.67	0.00	19.67	
PERIOD		0.00094	ug/m^3	SF	598623.72	4140128.07	19.69	0.00	19.69	
PERIOD		0.00091	ug/m^3	SF	598633.91	4140127.02	19.74	0.00	19.74	
PERIOD		0.00088	ug/m^3	SF	598644.81	4140125.89	19.77	0.00	19.77	
PERIOD		0.00252	ug/m^3		598200.85	4140378.43	15.81	0.00	15.81	
PERIOD		0.00219	ug/m^3		598208.93	4140389.00	15.79	0.00	15.79	
PERIOD		0.00252	ug/m^3		598174.58	4140363.19	15.42	0.00	15.42	
PERIOD		0.00297	ug/m^3		598184.54	4140352.61	15.38	0.00	15.38	
PERIOD		0.00229	ug/m^3		598229.38	4140384.67	16.02	0.00	16.02	
PERIOD		0.00266	ug/m^3		598223.10	4140376.83	16.14	0.00	16.14	
PERIOD		0.00336	ug/m^3	MEIR	598214.64	4140361.77	16.34	0.00	16.34	

2234 Lundy Place Project

Health Risk Summary of HARP2 Results

Residential MEIR - DPM

Maximum Risk	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic	MAXHI Acute
	2.50E-06	2.5008	0.000672	0

Maximally Exposed Individual Receptor

	X	Y
MEI UTM	598214.64	4140362

HARP File Name

*HARP - HRACalc v22118 6/11/2025 12:06:15 PM - Cancer Risk - Input File: F:\Jobs\29310001_R\OpHRA\HARP2\MEIRHRAInput.hra

RECEPTOR	X	Y	CONC	RISK_SUM	SCENARIO	CHRONIC HI
1	598214.64	4140361.77	0.00336	2.50E-06	30YrCancerRMP_Inh_FAH16to70	0.000672

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2234 Lundy Place Project

Health Risk Summary of HARP2 Results

Worker (MEIW) - DPM

Maximum Risk	RISK_SUM	Cancer Risk/million	MAXHI NonCancer Chronic	MAXHI Acute
	1.58E-07	0.15782	0.00051	0

Maximally Exposed Individual Receptor

	X	Y
MEI UTM	598438	4140212

HARP File Name

*HARP - HRACalc v22118 6/11/2025 12:08:10 PM - Cancer Risk - Input File: F:\Jobs\29310001_R\OpHRA\HARP2\MEIWHRAInput.hra

RECEPTOR	X	Y	CONC	RISK_SUM	SCENARIO	CHRONIC HI
1	598438	4140212	0.00255	1.58E-07	25YrCancerDerived_Inh	0.00051

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Receptor ID	UTMX	UTMY	Road Cancer Risk	Road Chronic HI	Road PM2.5	Rail Cancer Risk	Rail Chronic HI	Rail PM2.5
MEIR	598214.6	4140362	7.944645405	0.028644331	0.211173788	0.427460313	0.000114801	0.00054
MEIW	598438	4140212	10.44822025	0.035624273	0.237254292	0.058532339	0	0

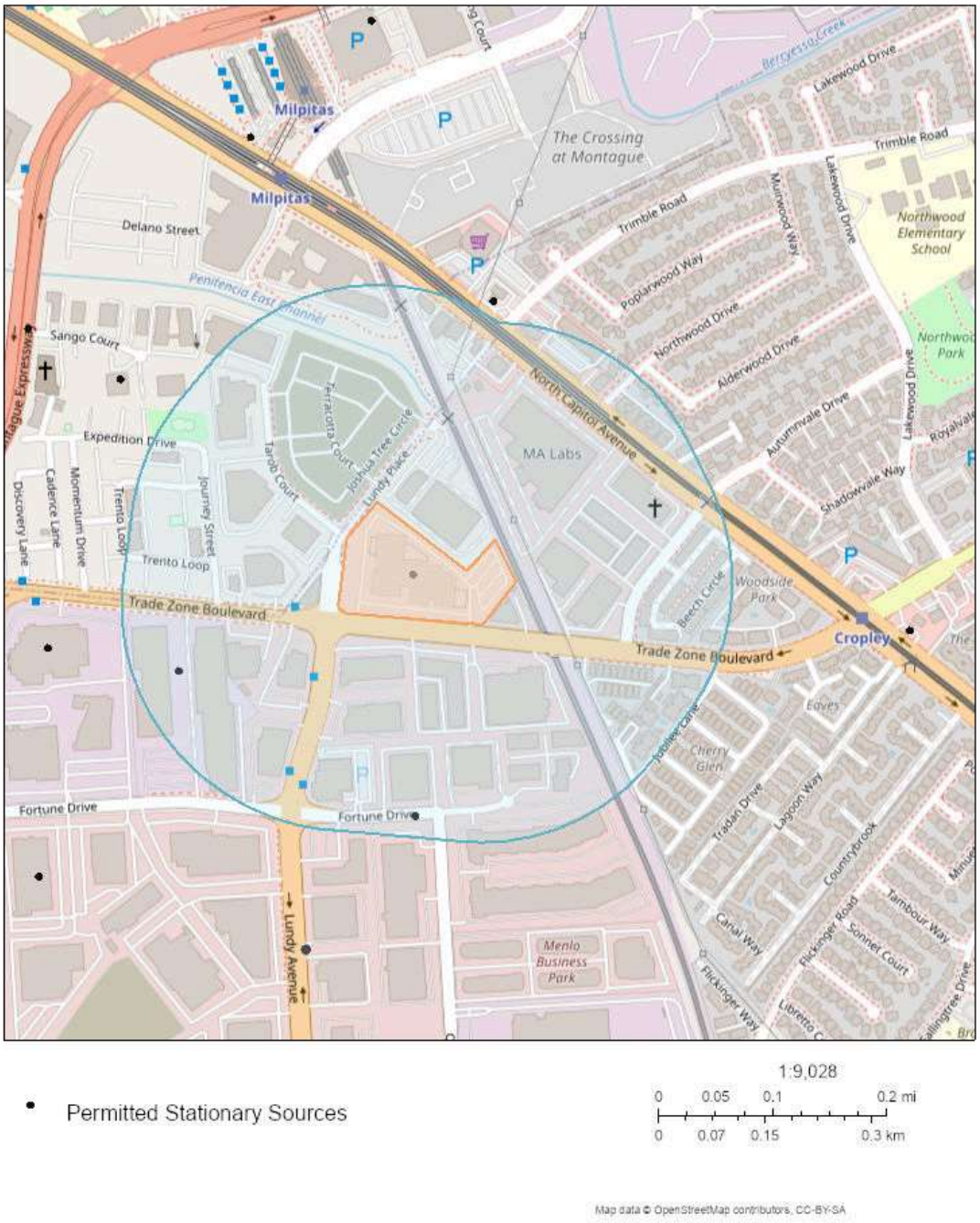
Data Provided By: BAAQMD as raster file (.tif) datasets
Roadway Screening Tool - Cancer Risk Last Updated December 8 2022
Roadway Screening Tool - Chronic Hazard Last Updated December 8 2022
Roadway Screening Tool - PM2.5 Last Updated December 8 2022
Rail Screening Tool - Cancer Risk Last Updated May 9 2024
Rail Screening Tool - Chronic Hazard Last Updated May 9 2024
Rail Screening Tool - PM2.5 Last Updated May 9 2024

Screening Report

Area of Interest (AOI) Information

Area : 5,719,353.76 ft²

Sep 16 2024 14:55:01 Pacific Daylight Time



Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	3	N/A	N/A

Permitted Stationary Sources

#	Address	Cancer_Ris	Chronic_Ha	City	County
1	2180 Fortune Drive	0.45	0.00	San Jose	Santa Clara
2	2334 Lundy Place	11.54	0.00	San Jose	Santa Clara
3	2001 Fortune Drive	85.62	0.02	San Jose	Santa Clara

#	Details	Facility_I	Facility_N	Latitude	Longitude
1	Generator	24489	Microchip Technology Inc	37.40	-121.89
2	Generator	25042	2334 Lundy Holding Company LLC - Digital Realty	37.40	-121.89
3	Generator	22974	Stack Infrastructure	37.40	-121.89

#	NAICS	NAICS_Indu	NAICS_Sect	NAICS_Subs	PM25
1	334413	Semiconductor and Related Device Manufacturing	Manufacturing	Computer and Electronic Product Manufacturing	0.00
2	518210	Data Processing, Hosting, and Related Services	Information	Data Processing, Hosting and Related Services	0.01
3	518210	Data Processing, Hosting, and Related Services	Information	Data Processing, Hosting and Related Services	0.11

#	State	Zip	Count
1	CA	95131	1
2	CA	95131	1
3	CA	95131	1

NOTE: A larger buffer than 1,000 may be warranted depending on proximity to significant sources.

2234 Lundy Place Industrial Warehouse Project 0.054 bhphr/gal

Construction Equipment - Unmitigated 18.5 gal/bhp-hr

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor	Days	bhp-hr	gallons
Demolition	Rubber Tired Dozers	Diesel	Average	2	8	367	0.4	20	46,976	2,537
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73	20	3,854	208
Demolition	Excavators	Diesel	Average	3	8	36	0.38	20	6,566	355
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4	8	84	0.37	10	9,946	537
Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4	10	35,232	1,903
Grading	Graders	Diesel	Average	1	8	148	0.41	20	9,709	524
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3	8	84	0.37	20	14,918	806
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4	20	23,488	1,268
Grading	Excavators	Diesel	Average	1	8	36	0.38	20	2,189	118
Building Construction	Forklifts	Diesel	Average	3	8	82	0.2	230	90,528	4,889
Building Construction	Generator Sets	Diesel	Average	1	8	14	0.74	230	19,062	1,029
Building Construction	Cranes	Diesel	Average	1	7	367	0.29	230	171,352	9,253
Building Construction	Welders	Diesel	Average	1	8	46	0.45	230	38,088	2,057
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37	230	150,116	8,106
Paving	Pavers	Diesel	Average	2	8	81	0.42	20	10,886	588
Paving	Paving Equipment	Diesel	Average	2	8	89	0.36	20	10,253	554
Paving	Rollers	Diesel	Average	2	8	36	0.38	20	4,378	236
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48	20	2,131	115
										35,082

2234 Lundy Place Industrial Warehouse Project

5.3. Construction Vehicles

5.3.1 Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Days	VMT	Vehicle Mix
Demolition	Worker	15	11.7	20	3,510	LDA,LDT1,LDT2
Demolition	Vendor		8.4			HHDT,MHDT
Demolition	Hauling	75	20	20	30,080	HHDT
Demolition	Onsite truck					HHDT
Site Preparation	Worker	18	11.7	10	2,048	LDA,LDT1,LDT2
Site Preparation	Vendor	8	8.4	10	689	HHDT,MHDT
Site Preparation	Hauling	34	20	10	6,760	HHDT
Site Preparation	Onsite truck					HHDT
Grading	Worker	15	11.7	20	3,510	LDA,LDT1,LDT2
Grading	Vendor		8.4			HHDT,MHDT
Grading	Hauling	25	20	20	10,000	HHDT
Grading	Onsite truck					HHDT
Building Construction	Worker	56	11.7	230	149,663	LDA,LDT1,LDT2
Building Construction	Vendor	22	8.4	230	41,931	HHDT,MHDT
Building Construction	Hauling	0	20	230	-	HHDT
Building Construction	Onsite truck					HHDT
Paving	Worker	15	11.7	20	3,510	LDA,LDT1,LDT2
Paving	Vendor	22	8.4	20	3,696	HHDT
Paving	Hauling	0	20	20	-	HHDT
Paving	Onsite truck					HHDT
Architectural Coating	Worker	11	11.7	20	2,603	LDA,LDT1,LDT2
Architectural Coating	Vendor		8.4			HHDT,MHDT
Architectural Coating	Hauling	0	20	20	-	HHDT
Architectural Coating	Onsite truck					HHDT

mpg	gal/mile	EMFAC Vehicle Category
31.52	0.032	LDA
26.29	0.038	LDT1
25.65	0.039	LDT2
8.54	0.117	MHDT
6.03	0.166	HHDT

(County-Specific Fuel Efficiency)

Gasoline for Light Duty and Diesel for Heavy Duty - Consistent with CalEEMod Assumptions

VMT TOTALS	Vehicle Category
164,843	LDA,LDT1,LDT2
42,620	HHDT,MHDT
-	MHDT
50,536	HHDT
257,999	total

	Santa Clara County Fuel Efficiency (MPG)	2026 Fuel (gallons)
LDA,LDT1,LDT2	27.44	6,008
HHDT,MHDT	7.29	5,850
MHDT	8.54	-
HHDT	6.03	8,381
		20,239

2234 Lundy Place Industrial Warehouse Project

5.11. Operational Energy Consumption

5.11.1 Unmitigated

Land Use	Electricity (kWh/yr)	Natural Gas (kBTU/yr)
General Heavy Industry	1,457,688	0
Parking Lot	71,778	0
Other Non-Asphalt Surfaces	-	0
Other Asphalt Surfaces	-	0
	1,529,466	**0**

2234 Lundy Place Industrial Warehouse Project

Energy Calculations - Operations Fuel Use from Mobile Sources

Region Santa Clara
OpYear 2027

Fuel Consumption by Vehicle Category - Annual Usage (gallons ; KWh-hr for Electicity)

Units	All vehicles	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	**193,871**	2	83864	8252	51063	8517	1228	3020	34004	2197	1256	362	83	22
Diesel	**18,912**	6495	131	1	139	2956	1666		410	484	5544	532	361	192
Natural Gas	**904**	759									71	6	21	47
Electricity	**132,385**	1449	114848	513	5642	1879	470		5897		1366	35	57	226

EMFAC Default Mix- County Popuation	VMT	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Santa Clara County Population	**1,319,443**	10,080	689,600	50,363	309,129	31,168	7,810	29,076	173,581	3,222	12,574	1,401	903	536
Vehicle Mix Default	**1**	0.8%	52.3%	3.8%	23.4%	2.4%	0.6%	2.2%	13.2%	0.2%	1.0%	0.1%	0.1%	0.0%

Vehicle Types /Mix in CalEEMod	VMT	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
General Heavy Industry	1,654,785	1	1	1	1	1	1	1	1	1	1	1	1	1
User Defined Industrial	1,261,490	1	1	1	1	1	1	1	1	1	1	1	1	1

Vehicle Percentages Modeled	VMT	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
General Heavy Industry	1,654,785	0.8%	52.3%	3.8%	23.4%	2.4%	0.6%	2.2%	13.2%	0.2%	1.0%	0.1%	0.1%	0.0%
User Defined Industrial	1,261,490	0.8%	52.3%	3.8%	23.4%	2.4%	0.6%	2.2%	13.2%	0.2%	1.0%	0.1%	0.1%	0.0%

General Heavy Industry **Fuel Consumption by Vehicle Category**

Fuel Consumption for CVMT	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	**gal**	1	23363	2338	14422	2416	348	857	9607	623	356	103	24	6
Diesel	**gal**	1843	37	0	39	839	473		116	137	1573	151	102	54
Natural Gas	**gal**	215									20	2	6	13
Plug-in Hybrid (Gasoline)	**gal**		431	3	65				41					
Fuel Consumption for EVMT	**Units**	**HHDT**	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MCY**	**MDV**	**MH**	**MHDT**	**OBUS**	**SBUS**	**UBUS**
Electricity	**kwhr**	411	32584	146	1601	533	133		1673		388	10	16	64
Plug-in Hybrid (Electricity)	**kwhr**		4359	37	726				441					

User Defined Industrial **Fuel Consumption by Vehicle Category**

Fuel Consumption for CVMT	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	**gal**	0	17810	1783	10994	1842	266	653	7324	475	272	78	18	5
Diesel	**gal**	1405	28	0	30	639	360		89	105	1199	115	78	42
Natural Gas	**gal**	164									15	1	5	10
Plug-in Hybrid (Gasoline)	**gal**		328	2	50				31					
Fuel Consumption for EVMT	**Units**	**HHDT**	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MCY**	**MDV**	**MH**	**MHDT**	**OBUS**	**SBUS**	**UBUS**
Electricity	**kwhr**	313	24840	111	1220	406	102		1276		295	8	12	49
Plug-in Hybrid (Electricity)	**kwhr**		3323	28	553				336					

2234 Lundy Place Industrial Warehouse Project

Energy Calculations - Operations Fuel Use from Mobile Sources

Region Santa Clara
OpYear 2027

Fuel Consumption by Vehicle Category

Fuel Consumption for CVMT	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	gal	1	41173	4121	25416	4259	614	1510	16931	1098	628	181	41	11
Diesel	gal	3248	66	1	69	1478	833		205	242	2772	266	181	96
Natural Gas	gal	379									36	3	11	23
Plug-in Hybrid (Gasoline)	gal		759	5	115				72					
Fuel Consumption for EVMT	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Electricity	kwhr	724	57424	256	2821	940	235		2949		683	18	29	113
Plug-in Hybrid (Electricity)	kwhr		7682	65	1279				777					

County and Year Specific - Fuel Efficiency

Fuel Consumption Factors	Units	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	gal/mi	0.234	0.031	0.037	0.038	0.098	0.111	0.024	0.046	0.226	0.202	0.201	0.099	0.108
Diesel	gal/mi	0.163	0.022	0.039	0.028	0.062	0.073	-	0.038	0.107	0.116	0.123	0.121	0.109
Natural Gas	gal/mi	0.193	-	-	-	-	-	-	-	-	0.138	0.125	0.179	0.168
Plug-in Hybrid	gal/mi	-	0.034	0.034	0.034	-	-	-	0.035	-	-	-	-	-
Fuel Consumption Factors	Units	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Electricity	kwhr/mi	1.844	0.386	0.386	0.386	0.655	0.645	-	0.386	-	1.094	1.108	1.053	1.743
Plug-in Hybrid	kwhr/mi	-	0.302	0.302	0.302	-	-	-	0.302	-	-	-	-	-

Total VMT Fraction by Fuel and Vehicle Category - Default EMFAC

Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	0%	87%	99%	97%	63%	32%	100%	95%	68%	11%	29%	21%	9%
Diesel	89%	0.2%	0.0%	0.4%	34.8%	65.8%	0.0%	1.4%	31.8%	85.6%	69.7%	74.8%	74.1%
Natural Gas	9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.7%	3.0%	11.8%
Electricity	2%	9.8%	0.6%	1.1%	2.1%	2.1%	0.0%	2.0%	0.0%	2.2%	0.5%	1.4%	5.5%
Plug-in Hybrid	0%	3.1%	0.3%	1.1%	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%
totals	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

CVMT/Total VMT by EMFAC Vehicle Type

Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Diesel	100%	100%	100%	100%	100%	100%	0%	100%	100%	100%	100%	100%	100%
Natural Gas	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	100%
Plug-in Hybrid	0%	47%	42%	44%	0%	0%	0%	44%	0%	0%	0%	0%	0%

EVMT/Total VMT by EMFAC Vehicle Type

Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Electricity	100%	100%	100%	100%	100%	100%	0%	100%	0%	100%	100%	100%	100%
Plug-in Hybrid	0%	53.24%	57.84%	55.86%	0.00%	0.00%	0.00%	55.60%	0.00%	0.00%	0.00%	0.00%	0.00%

2234 Lundy Place Industrial Warehouse Project 0.054 bhphr/gal

Construction Equipment - Unmitigated 18.5 gal/bhp-hr

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor	Days	bhp-hr	gallons
Demolition	Rubber Tired Dozers	Diesel	Average	2	8	367	0.4	20	46,976	2,537
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73	20	3,854	208
Demolition	Excavators	Diesel	Average	3	8	36	0.38	20	6,566	355
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4	8	84	0.37	10	9,946	537
Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4	10	35,232	1,903
Grading	Graders	Diesel	Average	1	8	148	0.41	20	9,709	524
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3	8	84	0.37	20	14,918	806
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4	20	23,488	1,268
Grading	Excavators	Diesel	Average	1	8	36	0.38	20	2,189	118
Building Construction	Forklifts	Diesel	Average	3	8	82	0.2	230	90,528	4,889
Building Construction	Generator Sets	Diesel	Average	1	8	14	0.74	230	19,062	1,029
Building Construction	Cranes	Diesel	Average	1	7	367	0.29	230	171,352	9,253
Building Construction	Welders	Diesel	Average	1	8	46	0.45	230	38,088	2,057
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37	230	150,116	8,106
Paving	Pavers	Diesel	Average	2	8	81	0.42	20	10,886	588
Paving	Paving Equipment	Diesel	Average	2	8	89	0.36	20	10,253	554
Paving	Rollers	Diesel	Average	2	8	36	0.38	20	4,378	236
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48	20	2,131	115
										35,082

2234 Lundy Place Industrial Warehouse Project

5.3. Construction Vehicles

5.3.1 Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Days	VMT	Vehicle Mix
Demolition	Worker	15	11.7	20	3,510	LDA,LDT1,LDT2
Demolition	Vendor		8.4			HHDT,MHDT
Demolition	Hauling	75	20	20	30,080	HHDT
Demolition	Onsite truck					HHDT
Site Preparation	Worker	18	11.7	10	2,048	LDA,LDT1,LDT2
Site Preparation	Vendor	8	8.4	10	689	HHDT,MHDT
Site Preparation	Hauling	34	20	10	6,760	HHDT
Site Preparation	Onsite truck					HHDT
Grading	Worker	15	11.7	20	3,510	LDA,LDT1,LDT2
Grading	Vendor		8.4			HHDT,MHDT
Grading	Hauling	25	20	20	10,000	HHDT
Grading	Onsite truck					HHDT
Building Construction	Worker	56	11.7	230	149,663	LDA,LDT1,LDT2
Building Construction	Vendor	22	8.4	230	41,931	HHDT,MHDT
Building Construction	Hauling	0	20	230	-	HHDT
Building Construction	Onsite truck					HHDT
Paving	Worker	15	11.7	20	3,510	LDA,LDT1,LDT2
Paving	Vendor	22	8.4	20	3,696	HHDT
Paving	Hauling	0	20	20	-	HHDT
Paving	Onsite truck					HHDT
Architectural Coating	Worker	11	11.7	20	2,603	LDA,LDT1,LDT2
Architectural Coating	Vendor		8.4			HHDT,MHDT
Architectural Coating	Hauling	0	20	20	-	HHDT
Architectural Coating	Onsite truck					HHDT

mpg	gal/mile	EMFAC Vehicle Category
31.52	0.032	LDA
26.29	0.038	LDT1
25.65	0.039	LDT2
8.54	0.117	MHDT
6.03	0.166	HHDT

(County-Specific Fuel Efficiency)

Gasoline for Light Duty and Diesel for Heavy Duty - Consistent with CalEEMod Assumptions

VMT TOTALS	Vehicle Category
164,843	LDA,LDT1,LDT2
42,620	HHDT,MHDT
-	MHDT
50,536	HHDT
257,999	total

	Santa Clara County Fuel Efficiency (MPG)	2026 Fuel (gallons)
LDA,LDT1,LDT2	27.44	6,008
HHDT,MHDT	7.29	5,850
MHDT	8.54	-
HHDT	6.03	8,381
		20,239

2234 Lundy Place Industrial Warehouse Project

5.11. Operational Energy Consumption

5.11.1 Unmitigated

Land Use	Electricity (kWh/yr)	Natural Gas (kBTU/yr)
General Heavy Industry	1,457,688	0
Parking Lot	71,778	0
Other Non-Asphalt Surfaces	-	0
Other Asphalt Surfaces	-	0
	1,529,466	**0**

2234 Lundy Place Industrial Warehouse Project

Energy Calculations - Operations Fuel Use from Mobile Sources

Region Santa Clara
OpYear 2027

Fuel Consumption by Vehicle Category - Annual Usage (gallons ; KWh-hr for Electicity)

Units	All vehicles	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	**193,871**	2	83864	8252	51063	8517	1228	3020	34004	2197	1256	362	83	22
Diesel	**18,912**	6495	131	1	139	2956	1666		410	484	5544	532	361	192
Natural Gas	**904**	759									71	6	21	47
Electricity	**132,385**	1449	114848	513	5642	1879	470		5897		1366	35	57	226

EMFAC Default Mix- County Popuation	VMT	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Santa Clara County Population	**1,319,443**	10,080	689,600	50,363	309,129	31,168	7,810	29,076	173,581	3,222	12,574	1,401	903	536
Vehicle Mix Default	**1**	0.8%	52.3%	3.8%	23.4%	2.4%	0.6%	2.2%	13.2%	0.2%	1.0%	0.1%	0.1%	0.0%

Vehicle Types /Mix in CalEEMod	VMT	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
General Heavy Industry	1,654,785	1	1	1	1	1	1	1	1	1	1	1	1	1
User Defined Industrial	1,261,490	1	1	1	1	1	1	1	1	1	1	1	1	1

Vehicle Percentages Modeled	VMT	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
General Heavy Industry	1,654,785	0.8%	52.3%	3.8%	23.4%	2.4%	0.6%	2.2%	13.2%	0.2%	1.0%	0.1%	0.1%	0.0%
User Defined Industrial	1,261,490	0.8%	52.3%	3.8%	23.4%	2.4%	0.6%	2.2%	13.2%	0.2%	1.0%	0.1%	0.1%	0.0%

General Heavy Industry **Fuel Consumption by Vehicle Category**

Fuel Consumption for CVMT	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	**gal**	1	23363	2338	14422	2416	348	857	9607	623	356	103	24	6
Diesel	**gal**	1843	37	0	39	839	473		116	137	1573	151	102	54
Natural Gas	**gal**	215									20	2	6	13
Plug-in Hybrid (Gasoline)	**gal**		431	3	65				41					
Fuel Consumption for EVMT	**Units**	**HHDT**	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MCY**	**MDV**	**MH**	**MHDT**	**OBUS**	**SBUS**	**UBUS**
Electricity	**kwhr**	411	32584	146	1601	533	133		1673		388	10	16	64
Plug-in Hybrid (Electricity)	**kwhr**		4359	37	726				441					

User Defined Industrial **Fuel Consumption by Vehicle Category**

Fuel Consumption for CVMT	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	**gal**	0	17810	1783	10994	1842	266	653	7324	475	272	78	18	5
Diesel	**gal**	1405	28	0	30	639	360		89	105	1199	115	78	42
Natural Gas	**gal**	164									15	1	5	10
Plug-in Hybrid (Gasoline)	**gal**		328	2	50				31					
Fuel Consumption for EVMT	**Units**	**HHDT**	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MCY**	**MDV**	**MH**	**MHDT**	**OBUS**	**SBUS**	**UBUS**
Electricity	**kwhr**	313	24840	111	1220	406	102		1276		295	8	12	49
Plug-in Hybrid (Electricity)	**kwhr**		3323	28	553				336					

2234 Lundy Place Industrial Warehouse Project

Energy Calculations - Operations Fuel Use from Mobile Sources

Region Santa Clara
OpYear 2027

Fuel Consumption by Vehicle Category

Fuel Consumption for CVMT	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	gal	1	41173	4121	25416	4259	614	1510	16931	1098	628	181	41	11
Diesel	gal	3248	66	1	69	1478	833		205	242	2772	266	181	96
Natural Gas	gal	379									36	3	11	23
Plug-in Hybrid (Gasoline)	gal		759	5	115				72					
Fuel Consumption for EVMT	Units	HHDT	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Electricity	kwhr	724	57424	256	2821	940	235		2949		683	18	29	113
Plug-in Hybrid (Electricity)	kwhr		7682	65	1279				777					

County and Year Specific - Fuel Efficiency

Fuel Consumption Factors	Units	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	gal/mi	0.234	0.031	0.037	0.038	0.098	0.111	0.024	0.046	0.226	0.202	0.201	0.099	0.108
Diesel	gal/mi	0.163	0.022	0.039	0.028	0.062	0.073	-	0.038	0.107	0.116	0.123	0.121	0.109
Natural Gas	gal/mi	0.193	-	-	-	-	-	-	-	-	0.138	0.125	0.179	0.168
Plug-in Hybrid	gal/mi	-	0.034	0.034	0.034	-	-	-	0.035	-	-	-	-	-
Fuel Consumption Factors	Units	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Electricity	kwhr/mi	1.844	0.386	0.386	0.386	0.655	0.645	-	0.386	-	1.094	1.108	1.053	1.743
Plug-in Hybrid	kwhr/mi	-	0.302	0.302	0.302	-	-	-	0.302	-	-	-	-	-

Total VMT Fraction by Fuel and Vehicle Category - Default EMFAC

Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	0%	87%	99%	97%	63%	32%	100%	95%	68%	11%	29%	21%	9%
Diesel	89%	0.2%	0.0%	0.4%	34.8%	65.8%	0.0%	1.4%	31.8%	85.6%	69.7%	74.8%	74.1%
Natural Gas	9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.7%	3.0%	11.8%
Electricity	2%	9.8%	0.6%	1.1%	2.1%	2.1%	0.0%	2.0%	0.0%	2.2%	0.5%	1.4%	5.5%
Plug-in Hybrid	0%	3.1%	0.3%	1.1%	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%
totals	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

CVMT/Total VMT by EMFAC Vehicle Type

Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Gasoline	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Diesel	100%	100%	100%	100%	100%	100%	0%	100%	100%	100%	100%	100%	100%
Natural Gas	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	100%
Plug-in Hybrid	0%	47%	42%	44%	0%	0%	0%	44%	0%	0%	0%	0%	0%

EVMT/Total VMT by EMFAC Vehicle Type

Fuel	HHDT	LDA	LDT1	LDT2	LHDT1	LHDT2	MCY	MDV	MH	MHDT	OBUS	SBUS	UBUS
Electricity	100%	100%	100%	100%	100%	100%	0%	100%	0%	100%	100%	100%	100%
Plug-in Hybrid	0%	53.24%	57.84%	55.86%	0.00%	0.00%	0.00%	55.60%	0.00%	0.00%	0.00%	0.00%	0.00%

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 policies[1] 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 though 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

Industrial Warehouse

1) Consistency with the Land Use/Transportation Diagram (Land Use and Density)	Yes	No
Is the proposed Project consistent with the Land Use/Transportation Diagram?	☒	☐
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]	☐	☐
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.	☐	☐

Response documentation: *[Either here or as an attachment]*

The project is consistent with the Transit Employment Center designation in the Envision San José 2040 General Plan. It proposes a state-of-the-art industrial warehouse use that supports employment growth in a transit-accessible area, and aligns with adjacent Light Industrial and Industrial Park uses.

[2] For example, a General Plan Amendment to change use from single-family residential to multi-family residential or a General Plan Amendment to change the use from regional-serving commercial to mixed-use urban in a transit-served area might reduce travel demand, and therefore GHG emissions from mobile sources.

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 building's flat, unobstructed roof is designed to be solar-ready and can accommodate photovoltaic systems. This supports the 2022 CBC and CalGreen requirements for nonresidential solar readiness in new construction (Section 120.11 of Title 24, Part 6).		
***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] Building includes a two-story glass façade and skylights for passive lighting and reduced energy load. Design considers solar orientation for natural daylight, in line with energy efficiency goals under 2022 CBC and Title 24 energy code (Part 6).		
***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] Project includes surface parking but no structured or shaded parking areas. Solar canopies are not required for this industrial site under current 2022 CBC or San José code.		
***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] Design complies with CalGreen Tier 1 (2022 CBC Part 11) and City Green Building Ordinance. Includes high-performance envelope, energy-efficient mechanical systems, and low-impact site layout.		
***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] Although on-site solar is not proposed initially, the facility is solar-ready and prepped for future PV arrays consistent with distributed generation objectives.		

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]		

The project includes sidewalks along Lundy Place and Trade Zone Boulevard, with internal pedestrian pathways connecting the building to public sidewalks and parking areas. The site includes designated bicycle parking, and pedestrian circulation is safely separated from truck access to promote a walkable and multi-modal environment.

***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]		

The project integrates green building and site design principles by maximizing natural daylight through large vision glass at office entries and skylights in the warehouse, reducing energy consumption. Landscaped areas, including tree plantings and bio-swales, help mitigate heat island effects, enhance aesthetics, and manage stormwater on-site.

	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]		

Not located in a Downtown/Urban Village Overlay. Surface parking is appropriate for industrial use and is minimized and buffered by landscaping.

***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]		

Includes bike racks, sidewalk connections, and easy access to adjacent arterial roads.

***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]		

Two driveways and internal sidewalks, ensure access and maneuverability. Circulation design supports both trucks and pedestrians.

***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]		

86 stalls and 6 trailer spaces are organized to preserve walkability and landscaped buffers. EV stalls are prominently designated near entrances.

	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 project provides a total of 12 bicycle parking spaces, including 6 short-term and 6 long-term facilities, consistent with CalGreen Section 5.106.4 requirements for non-residential projects. These facilities are located near the building entrance for visibility and accessibility, and are integrated into the pedestrian network to support safe and convenient bike access for employees and visitors.

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]		

A Transportation Demand Management plan is under development. It addresses parking demand, proximity to transit, and vehicle trip reduction.

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]		

Car share not feasible for this industrial project. However, the TDM strategy and location near arterial roads reduce single-occupancy vehicle reliance.

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]		

Landscape Plan and Hydrozone Plan comply with WELO and 2022 CalGreen Sec. 5.304. Project achieves 44.4% reduction in potable irrigation use.

	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]		

Irrigation design allows for future recycled water connections, and all irrigation zones use low-volume drip or efficient spray heads.

***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 system is prepared to connect to City recycled water infrastructure when feasible. In the interim, efficient irrigation minimizes potable use.

***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]		

Trees selected (LC1.2) are drought-tolerant and adapted to the local climate. Placement provides shade and environmental benefit.

***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]		

20 trees to be removed will be replaced with 39 24-inch box trees, exceeding Title 13 mitigation requirements.

	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]

Stormwater features include bio-retention areas and flow-through planters that treat runoff and support infiltration per MWELO and LID standards.

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	*Describe which, if any, project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this strategy is not applicable to your project.* *OR,* *Describe why such measures are infeasible.* Project is not a residential project.	☐ Proposed ☒ Not Applicable ☐ Not Feasible* ☐ Alternative Measure Proposed ** The 2030 GHGRS assumed this strategy would be feasible for 50% of residential units constructed between 2020 and 2030.*
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	*Describe which, if any, project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this strategy is not applicable to your project.* *OR,* *Describe why such measures are infeasible.* The project does not propose to install on-site renewable energy systems (such as solar PV or solar hot water) during the initial construction phase. However, the building is fully solar-ready, featuring a flat, unobstructed roof designed in compliance with Title 24, Section 120.11, and the San José Reach Code. This design allows for the future addition of photovoltaic panels, supporting long-term distributed clean energy development, even though installation is not planned at this time.	☐ 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 Gas[3] 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	*Describe which, if any, project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this strategy is not applicable to your project.* *OR,* *Describe why such measures are infeasible.* The project involves complete demolition of the existing building and new construction of a state-of-the-art industrial warehouse. No retrofitting of existing structures is proposed. Additionally, the project is being designed to comply with the San José Reach Code, which limits or prohibits new natural gas infrastructure in favor of electrification. As such, no new natural gas lines or equipment will be installed as part of this development.	☐ 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	*Describe which, if any, project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this strategy is not applicable to your project.* *OR,* *Describe why such measures are infeasible.* The project will comply with the City of San José's Construction & Demolition Diversion Program, which requires at least 65% of C&D waste to be recycled or reused. The contractor will be responsible for tracking diversion rates and ensuring that construction practices align with the requirements of CalGreen Section 5.408, supporting the City's long-term goal of achieving zero waste.	☒ Proposed ☐ Not Applicable ☐ Not Feasible ☐ Alternative Measure Proposed

[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 1. 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 2. 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	*Describe which, if any, project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this strategy is not applicable to your project.* *OR,* *Describe why such measures are infeasible.* The project is located in North San José, outside the immediate vicinity of Caltrain stations or planned Caltrain electrification infrastructure. It is not a transit-oriented development (TOD) and does not directly connect to Caltrain services. However, the project does support broader VMT reduction goals through bicycle infrastructure, EV readiness, and a TDM plan, even though it does not contribute directly to Caltrain Modernization efforts.	☒ Proposed ☐ Not Applicable ☐ Not Feasible ☐ Alternative Measure Proposed
Water Conservation 1. Install high-efficiency appliances/fixtures to reduce water use, and/or include water-sensitive landscape design, and/or 2. Provide access to reclaimed water for outdoor water use on the project site. **Supports Strategies:** GHGRS #7	*Describe which, if any, project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this strategy is not applicable to your project.* *OR,* *Describe why such measures are infeasible.* The project will fully comply with San José's Water Efficient Landscape Ordinance (WELO) and CalGreen Tier 1 standards. The landscape and hydrozone plans demonstrate a 44.4% reduction in ~~potable water use compared to the maximum allowed (MAWA).~~ The irrigation system uses high-efficiency drip and spray zones, and all indoor plumbing fixtures will meet low-flow requirements under CalGreen Section 5.303. The system is also designed to accommodate future recycled water connections where available.	☒ 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
[Describe the proposed project measure and why it is proposed] **Supports Strategies/Sectors:** GHGRS #	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions.* *Include a description of how your measure will reduce emissions and provide supporting quantification documentation/assumptions.]*	☐ Part of Design ☐ Additional Measure
[Describe the proposed project measure and why it is proposed] **Supports Strategies/Sectors:** GHGRS #	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions.* *Include a description of how your measure will reduce emissions and provide supporting quantification documentation/assumptions.]*	☐ Part of Design ☐ Additional Measure
[Describe the proposed project measure and why it is proposed] **Supports Strategies/Sectors:** GHGRS #	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions.* *Include a description of how your measure will reduce emissions and provide supporting quantification documentation/assumptions.]*	☐ Part of Design ☐ Additional Measure
[Describe the proposed project measure and why it is proposed] **Supports Strategies/Sectors:** GHGRS #	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions.* *Include a description of how your measure will reduce emissions and provide supporting quantification documentation/assumptions.]*	☐ Part of Design ☐ Additional Measure