APPENDIX B

AIR QUALITY MODELING

This page intentionally left blank

B-1

AIR QUALITY MODELING OUTPUTS

This page intentionally left blank

Increase in Maximum Daily Operations at Prima Deshecha Landfill - Operational and Passenger Vehicles Analysis Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Increase in Maximum Daily Operations at Prima Deshecha Landfill - Operational and Passenger Vehicles Analysis
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	0.20
Location	32250 Avenida La Pata, San Juan Capistrano, CA 92675, USA
County	Orange
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6057
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	Southern California Gas
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Other Non-Asphalt Surfaces	680	Acre	680	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.94	78.3	208	0.43	3.00	0.61	3.61	2.73	0.15	2.89	0.00	42,150	42,150	1.70	0.35	42,300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.93	78.3	207	0.43	3.00	0.61	3.61	2.73	0.15	2.89	0.00	42,120	42,120	1.70	0.35	42,268
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.11	65.9	175	0.36	2.53	0.61	3.13	2.30	0.15	2.45	0.00	35,526	35,526	1.44	0.30	35,652
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.66	12.0	31.9	0.07	0.46	0.11	0.57	0.42	0.03	0.45	0.00	5,882	5,882	0.24	0.05	5,903

2.5. Operations Emissions by Sector, Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.19	0.15	2.47	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	602	602	0.02	0.01	610
Area	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	5.16	78.1	205	0.42	3.00	—	3.00	2.73	—	2.73	—	41,547	41,547	1.69	0.34	41,690
Total	9.94	78.3	208	0.43	3.00	0.61	3.61	2.73	0.15	2.89	0.00	42,150	42,150	1.70	0.35	42,300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.19	0.16	2.18	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	573	573	0.02	0.02	578
Area	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	5.16	78.1	205	0.42	3.00	—	3.00	2.73	—	2.73	—	41,547	41,547	1.69	0.34	41,690
Total	9.93	78.3	207	0.43	3.00	0.61	3.61	2.73	0.15	2.89	0.00	42,120	42,120	1.70	0.35	42,268
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.19	0.17	2.27	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	581	581	0.02	0.02	587
Area	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	4.34	65.7	173	0.36	2.52	—	2.52	2.30	—	2.30	—	34,945	34,945	1.42	0.28	35,065
Total	9.11	65.9	175	0.36	2.53	0.61	3.13	2.30	0.15	2.45	0.00	35,526	35,526	1.44	0.30	35,652

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.03	0.41	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	96.2	96.2	< 0.005	< 0.005	97.2
Area	0.84	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.79	12.0	31.5	0.06	0.46	—	0.46	0.42	—	0.42	—	5,786	5,786	0.23	0.05	5,805
Total	1.66	12.0	31.9	0.07	0.46	0.11	0.57	0.42	0.03	0.45	0.00	5,882	5,882	0.24	0.05	5,903

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	0.19	0.15	2.47	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	602	602	0.02	0.01	610
Total	0.19	0.15	2.47	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	602	602	0.02	0.01	610
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	0.19	0.16	2.18	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	573	573	0.02	0.02	578
Total	0.19	0.16	2.18	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	573	573	0.02	0.02	578

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	0.03	0.03	0.41	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	96.2	96.2	< 0.005	< 0.005	97.2
Total	0.03	0.03	0.41	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	96.2	96.2	< 0.005	< 0.005	97.2

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectu Coatings	2.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipmen t	0.00	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	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectu ral Coatings	2.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectu ral Coatings	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipmen t	0.00	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	0.84	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.95	6.49	49.4	0.09	0.18	—	0.18	0.18	—	0.18	—	9,690	9,690	0.39	0.08	9,723
Rubber Tired Dozers	0.31	1.62	16.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,323	3,323	0.13	0.03	3,334
Plate Compactors	0.55	2.87	28.7	0.10	0.11	—	0.11	0.11	—	0.11	—	6,272	6,272	0.25	0.05	6,293
Scrapers	2.24	57.7	64.6	0.12	2.24	—	2.24	1.99	—	1.99	—	13,134	13,134	0.53	0.11	13,179
Graders	0.11	0.59	5.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,207	1,207	0.05	0.01	1,211
Other Material Handling Equipment	0.31	4.70	5.22	0.01	0.22	—	0.22	0.20	—	0.20	—	851	851	0.03	0.01	854
Skid Steer Loaders	0.03	0.77	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	—	149	149	0.01	< 0.005	149
Rubber Tired Loaders	0.19	1.00	9.95	0.02	0.04	—	0.04	0.04	—	0.04	—	2,014	2,014	0.08	0.02	2,021
Off-Highway Trucks	0.46	2.42	24.2	0.05	0.09	—	0.09	0.09	—	0.09	—	4,908	4,908	0.20	0.04	4,925
Total	5.16	78.1	205	0.42	3.00	—	3.00	2.73	—	2.73	—	41,547	41,547	1.69	0.34	41,690
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Tractors/L	0.95	6.49	49.4	0.09	0.18	—	0.18	0.18	—	0.18	—	9,690	9,690	0.39	0.08	9,723
Rubber Tired Dozers	0.31	1.62	16.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,323	3,323	0.13	0.03	3,334
Plate Compactors	0.55	2.87	28.7	0.10	0.11	—	0.11	0.11	—	0.11	—	6,272	6,272	0.25	0.05	6,293
Scrapers	2.24	57.7	64.6	0.12	2.24	—	2.24	1.99	—	1.99	—	13,134	13,134	0.53	0.11	13,179
Graders	0.11	0.59	5.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,207	1,207	0.05	0.01	1,211
Other Material Handling Equipment	0.31	4.70	5.22	0.01	0.22	—	0.22	0.20	—	0.20	—	851	851	0.03	0.01	854
Skid Steer Loaders	0.03	0.77	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	—	149	149	0.01	< 0.005	149
Rubber Tired Loaders	0.19	1.00	9.95	0.02	0.04	—	0.04	0.04	—	0.04	—	2,014	2,014	0.08	0.02	2,021
Off-Highway Trucks	0.46	2.42	24.2	0.05	0.09	—	0.09	0.09	—	0.09	—	4,908	4,908	0.20	0.04	4,925
Total	5.16	78.1	205	0.42	3.00	—	3.00	2.73	—	2.73	—	41,547	41,547	1.69	0.34	41,690
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.15	1.00	7.58	0.01	0.03	—	0.03	0.03	—	0.03	—	1,349	1,349	0.05	0.01	1,354
Rubber Tired Dozers	0.05	0.25	2.49	< 0.005	0.01	—	0.01	0.01	—	0.01	—	463	463	0.02	< 0.005	464
Plate Compactors	0.08	0.44	4.40	0.01	0.02	—	0.02	0.02	—	0.02	—	873	873	0.04	0.01	876
Scrapers	0.34	8.85	9.92	0.02	0.34	—	0.34	0.31	—	0.31	—	1,829	1,829	0.07	0.01	1,835
Graders	0.02	0.09	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	168	168	0.01	< 0.005	169

Other Material Handling Equipment	0.05	0.72	0.80	< 0.005	0.03	—	0.03	0.03	—	0.03	—	119	119	< 0.005	< 0.005	119
Skid Steer Loaders	< 0.005	0.12	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.7	20.7	< 0.005	< 0.005	20.8
Rubber Tired Loaders	0.03	0.15	1.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	280	280	0.01	< 0.005	281
Off-Highway Trucks	0.07	0.37	3.71	0.01	0.01	—	0.01	0.01	—	0.01	—	683	683	0.03	0.01	686
Total	0.79	12.0	31.5	0.06	0.46	—	0.46	0.42	—	0.42	—	5,786	5,786	0.23	0.05	5,805

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Other Non-Asphalt Surfaces	70.0	70.0	70.0	25,565	868	868	868	316,746

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	0.00	0.00	1,777,248

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Other Non-Asphalt Surfaces	0.00	589	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
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)
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

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
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	10.0	460	0.37
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	251	0.37
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	10.0	110	0.37
Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	10.0	354	0.40
Plate Compactors	Diesel	Tier 4 Final	2.00	10.0	582	0.43
Scrapers	Diesel	Tier 3	3.00	10.0	500	0.48
Scrapers	Diesel	Tier 3	3.00	10.0	283	0.48

Graders	Diesel	Tier 4 Final	1.00	10.0	253	0.41
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	115	0.37
Other Material Handling Equipment	Diesel	Tier 3	1.00	5.00	180	0.42
Skid Steer Loaders	Diesel	Tier 4 Interim	1.00	5.00	69.0	0.37
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	182	0.36
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	300	0.36
Off-Highway Trucks	Diesel	Tier 4 Final	3.00	10.0	370	0.38
Other Material Handling Equipment	Diesel	Tier 4 Final	1.00	5.00	73.7	0.42
Other Material Handling Equipment	Diesel	Average	2.00	5.00	50.0	0.40

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	The proposed project would generate approximately 3,041 net new average daily trips, including 2,371 truck trips and 70 passenger vehicle trips. This analysis only includes the 70 passenger vehicle trips.
Operations: Fleet Mix	The 70 passenger trips are associated with employee trips only, therefore, this analysis assumes 50% LDA, 25% LDT1, and 25% LDT2.
Operations: Off-Road Equipment	Equipment list, including HP and engine tier, was provided by OC Waste & Recycling.
Operations: Road Dust	—

Increase in Maximum Daily Operations at Prima Deshecha Landfill - Truck Trips Analysis Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Increase in Maximum Daily Operations at Prima Deshecha Landfill - Truck Trips Analysis
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	0.20
Location	32250 Avenida La Pata, San Juan Capistrano, CA 92675, USA
County	Orange
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6057
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	Southern California Gas
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	680	Acre	680	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.6	579	424	4.22	10.0	109	119	9.40	29.4	38.8	0.00	462,614	462,614	33.6	67.0	484,293
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.4	598	425	4.22	10.0	109	119	9.41	29.4	38.8	0.00	462,678	462,678	33.6	67.0	483,503
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.7	516	360	3.61	8.53	93.5	102	8.00	25.2	33.2	0.00	395,762	395,762	28.8	57.4	413,914
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.69	94.2	65.7	0.66	1.56	17.1	18.6	1.46	4.60	6.06	0.00	65,523	65,523	4.77	9.50	68,528

2.5. Operations Emissions by Sector, Unmitigated

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

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

Mobile	5.98	482	197	3.75	6.20	109	115	5.93	29.4	35.3	—	416,829	416,829	31.8	66.6	438,351
Area	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	6.05	97.6	227	0.46	3.83	—	3.83	3.47	—	3.47	—	45,785	45,785	1.86	0.37	45,942
Total	16.6	579	424	4.22	10.0	109	119	9.40	29.4	38.8	0.00	462,614	462,614	33.6	67.0	484,293
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.77	500	198	3.75	6.21	109	115	5.94	29.4	35.3	—	416,893	416,893	31.8	66.6	437,561
Area	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	6.05	97.6	227	0.46	3.83	—	3.83	3.47	—	3.47	—	45,785	45,785	1.86	0.37	45,942
Total	16.4	598	425	4.22	10.0	109	119	9.41	29.4	38.8	0.00	462,678	462,678	33.6	67.0	483,503
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.05	434	169	3.22	5.32	93.5	98.8	5.09	25.2	30.3	—	357,305	357,305	27.2	57.1	375,325
Area	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	5.08	81.9	191	0.39	3.21	—	3.21	2.91	—	2.91	—	38,457	38,457	1.56	0.31	38,589
Total	14.7	516	360	3.61	8.53	93.5	102	8.00	25.2	33.2	0.00	395,762	395,762	28.8	57.4	413,914
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.92	79.3	30.9	0.59	0.97	17.1	18.0	0.93	4.60	5.53	—	59,156	59,156	4.51	9.45	62,139
Area	0.84	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.93	14.9	34.8	0.07	0.59	—	0.59	0.53	—	0.53	—	6,367	6,367	0.26	0.05	6,389
Total	2.69	94.2	65.7	0.66	1.56	17.1	18.6	1.46	4.60	6.06	0.00	65,523	65,523	4.77	9.50	68,528

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	5.98	482	197	3.75	6.20	109	115	5.93	29.4	35.3	—	416,829	416,829	31.8	66.6	438,351
Total	5.98	482	197	3.75	6.20	109	115	5.93	29.4	35.3	—	416,829	416,829	31.8	66.6	438,351
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	5.77	500	198	3.75	6.21	109	115	5.94	29.4	35.3	—	416,893	416,893	31.8	66.6	437,561
Total	5.77	500	198	3.75	6.21	109	115	5.94	29.4	35.3	—	416,893	416,893	31.8	66.6	437,561
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	0.92	79.3	30.9	0.59	0.97	17.1	18.0	0.93	4.60	5.53	—	59,156	59,156	4.51	9.45	62,139

Total	0.92	79.3	30.9	0.59	0.97	17.1	18.0	0.93	4.60	5.53	—	59,156	59,156	4.51	9.45	62,139

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

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

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscap Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.84	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

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

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.95	6.49	49.4	0.09	0.18	—	0.18	0.18	—	0.18	—	9,690	9,690	0.39	0.08	9,723
Rubber Tired Dozers	0.31	1.62	16.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,323	3,323	0.13	0.03	3,334
Plate Compactors	0.55	2.87	28.7	0.10	0.11	—	0.11	0.11	—	0.11	—	6,272	6,272	0.25	0.05	6,293
Scrapers	2.24	57.7	64.6	0.12	2.24	—	2.24	1.99	—	1.99	—	13,134	13,134	0.53	0.11	13,179
Graders	0.11	0.59	5.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,207	1,207	0.05	0.01	1,211
Other Material Handling Equipment	0.52	6.53	7.01	0.01	0.37	—	0.37	0.33	—	0.33	—	1,083	1,083	0.04	0.01	1,087
Skid Steer Loaders	0.03	0.77	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	—	149	149	0.01	< 0.005	149
Rubber Tired Loaders	0.19	1.00	9.95	0.02	0.04	—	0.04	0.04	—	0.04	—	2,014	2,014	0.08	0.02	2,021
Off-Highway Trucks	1.15	20.0	43.9	0.08	0.78	—	0.78	0.70	—	0.70	—	8,913	8,913	0.36	0.07	8,944
Total	6.05	97.6	227	0.46	3.83	—	3.83	3.47	—	3.47	—	45,785	45,785	1.86	0.37	45,942
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.95	6.49	49.4	0.09	0.18	—	0.18	0.18	—	0.18	—	9,690	9,690	0.39	0.08	9,723

Rubber Tired Dozers	0.31	1.62	16.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,323	3,323	0.13	0.03	3,334
Plate Compactors	0.55	2.87	28.7	0.10	0.11	—	0.11	0.11	—	0.11	—	6,272	6,272	0.25	0.05	6,293
Scrapers	2.24	57.7	64.6	0.12	2.24	—	2.24	1.99	—	1.99	—	13,134	13,134	0.53	0.11	13,179
Graders	0.11	0.59	5.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,207	1,207	0.05	0.01	1,211
Other Material Handling Equipment	0.52	6.53	7.01	0.01	0.37	—	0.37	0.33	—	0.33	—	1,083	1,083	0.04	0.01	1,087
Skid Steer Loaders	0.03	0.77	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	—	149	149	0.01	< 0.005	149
Rubber Tired Loaders	0.19	1.00	9.95	0.02	0.04	—	0.04	0.04	—	0.04	—	2,014	2,014	0.08	0.02	2,021
Off-Highway Trucks	1.15	20.0	43.9	0.08	0.78	—	0.78	0.70	—	0.70	—	8,913	8,913	0.36	0.07	8,944
Total	6.05	97.6	227	0.46	3.83	—	3.83	3.47	—	3.47	—	45,785	45,785	1.86	0.37	45,942
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.15	1.00	7.58	0.01	0.03	—	0.03	0.03	—	0.03	—	1,349	1,349	0.05	0.01	1,354
Rubber Tired Dozers	0.05	0.25	2.49	< 0.005	0.01	—	0.01	0.01	—	0.01	—	463	463	0.02	< 0.005	464
Plate Compactors	0.08	0.44	4.40	0.01	0.02	—	0.02	0.02	—	0.02	—	873	873	0.04	0.01	876
Scrapers	0.34	8.82	9.88	0.02	0.34	—	0.34	0.30	—	0.30	—	1,821	1,821	0.07	0.01	1,828
Graders	0.02	0.09	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	167	167	0.01	< 0.005	168
Other Material Handling Equipment	0.08	1.00	1.08	< 0.005	0.06	—	0.06	0.05	—	0.05	—	151	151	0.01	< 0.005	151

Skid Steer Loaders	< 0.005	0.12	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.7	20.7	< 0.005	< 0.005	20.8
Rubber Tired Loaders	0.03	0.15	1.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	280	280	0.01	< 0.005	281
Off-Highway Trucks	0.18	3.07	6.74	0.01	0.12	—	0.12	0.11	—	0.11	—	1,241	1,241	0.05	0.01	1,245
Total	0.93	14.9	34.8	0.07	0.59	—	0.59	0.53	—	0.53	—	6,367	6,367	0.26	0.05	6,389

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequester	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Other Non-Asphalt Surfaces	2,972	2,972	0.00	929,686	118,864	118,864	0.00	37,187,451

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	0.00	0.00	1,777,248

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Other Non-Asphalt Surfaces	0.00	589	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
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)
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

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
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	10.0	460	0.37
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	251	0.37
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	10.0	110	0.37
Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	10.0	354	0.40
Plate Compactors	Diesel	Tier 4 Final	2.00	10.0	582	0.43
Scrapers	Diesel	Tier 3	3.00	10.0	500	0.48
Scrapers	Diesel	Tier 3	3.00	10.0	283	0.48
Graders	Diesel	Tier 4 Final	1.00	10.0	253	0.41
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	115	0.37
Other Material Handling Equipment	Diesel	Tier 3	1.00	5.00	180	0.42
Skid Steer Loaders	Diesel	Tier 4 Interim	1.00	5.00	69.0	0.37
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	182	0.36
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	300	0.36

Off-Highway Trucks	Diesel	Tier 4 Final	3.00	10.0	370	0.38
Off-Highway Trucks	Diesel	Tier 3	2.00	10.0	453	0.38
Other Material Handling Equipment	Diesel	Tier 4 Final	1.00	5.00	73.7	0.42
Other Material Handling Equipment	Diesel	Average	2.00	10.0	50.0	0.40

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	The proposed project would generate approximately 3,041 net new average daily trips, including 2,371 truck trips and 70 passenger vehicle trips. This analysis only includes the truck trips. The Landfill is closed on Sundays. Also assuming a 40-mile trip length.
Operations: Fleet Mix	Assuming all HHD truck trips.
Operations: Off-Road Equipment	Equipment list, including HP and engine tier, was provided by OC Waste & Recycling.

Increase in Maximum Daily Operations at Prima Deshecha Landfill - Operational and Passenger Vehicles Analysis - Mitigated Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Increase in Maximum Daily Operations at Prima Deshecha Landfill - Operational and Passenger Vehicles Analysis - Mitigated
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	0.20
Location	32250 Avenida La Pata, San Juan Capistrano, CA 92675, USA
County	Orange
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6057
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	Southern California Gas
App Version	2022.1.1.26

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

Other Non-Asphalt Surfaces	680	Acre	680	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.71	23.0	208	0.43	0.78	0.61	1.39	0.78	0.15	0.94	0.00	42,150	42,150	1.70	0.35	42,300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.71	23.0	207	0.43	0.78	0.61	1.39	0.78	0.15	0.94	0.00	42,120	42,120	1.70	0.35	42,268
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.09	19.4	175	0.36	0.66	0.61	1.26	0.66	0.15	0.81	0.00	35,526	35,526	1.44	0.30	35,652
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	3.54	31.9	0.07	0.12	0.11	0.23	0.12	0.03	0.15	0.00	5,882	5,882	0.24	0.05	5,903

2.5. Operations Emissions by Sector, Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.19	0.15	2.47	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	602	602	0.02	0.01	610
Area	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	3.94	22.9	205	0.42	0.78	—	0.78	0.78	—	0.78	—	41,547	41,547	1.69	0.34	41,690
Total	8.71	23.0	208	0.43	0.78	0.61	1.39	0.78	0.15	0.94	0.00	42,150	42,150	1.70	0.35	42,300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.19	0.16	2.18	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	573	573	0.02	0.02	578
Area	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	3.94	22.9	205	0.42	0.78	—	0.78	0.78	—	0.78	—	41,547	41,547	1.69	0.34	41,690
Total	8.71	23.0	207	0.43	0.78	0.61	1.39	0.78	0.15	0.94	0.00	42,120	42,120	1.70	0.35	42,268
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.19	0.17	2.27	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	581	581	0.02	0.02	587
Area	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	3.31	19.2	173	0.36	0.65	—	0.65	0.65	—	0.65	—	34,945	34,945	1.42	0.28	35,065
Total	8.09	19.4	175	0.36	0.66	0.61	1.26	0.66	0.15	0.81	0.00	35,526	35,526	1.44	0.30	35,652

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.03	0.41	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	96.2	96.2	< 0.005	< 0.005	97.2
Area	0.84	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Water	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.60	3.51	31.5	0.06	0.12	—	0.12	0.12	—	0.12	—	5,786	5,786	0.23	0.05	5,805
Total	1.48	3.54	31.9	0.07	0.12	0.11	0.23	0.12	0.03	0.15	0.00	5,882	5,882	0.24	0.05	5,903

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	0.19	0.15	2.47	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	602	602	0.02	0.01	610
Total	0.19	0.15	2.47	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	602	602	0.02	0.01	610
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	0.19	0.16	2.18	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	573	573	0.02	0.02	578
Total	0.19	0.16	2.18	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	573	573	0.02	0.02	578
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Other Non-Asphalt Surfaces	0.03	0.03	0.41	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	96.2	96.2	< 0.005	< 0.005	97.2
Total	0.03	0.03	0.41	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	96.2	96.2	< 0.005	< 0.005	97.2

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	2.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	4.59	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.84	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.92	4.79	49.4	0.09	0.18	—	0.18	0.18	—	0.18	—	9,690	9,690	0.39	0.08	9,723
Rubber Tired Dozers	0.31	1.62	16.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,323	3,323	0.13	0.03	3,334
Plate Compactors	0.55	2.87	28.7	0.10	0.11	—	0.11	0.11	—	0.11	—	6,272	6,272	0.25	0.05	6,293
Scrapers	1.24	6.46	64.6	0.12	0.25	—	0.25	0.25	—	0.25	—	13,134	13,134	0.53	0.11	13,179
Graders	0.11	0.59	5.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,207	1,207	0.05	0.01	1,211
Other Material Handling Equipment	0.11	2.36	5.06	0.01	0.02	—	0.02	0.02	—	0.02	—	851	851	0.03	0.01	854
Skid Steer Loaders	0.03	0.77	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	149	149	0.01	< 0.005	149
Rubber Tired Loaders	0.19	1.00	9.95	0.02	0.04	—	0.04	0.04	—	0.04	—	2,014	2,014	0.08	0.02	2,021
Off-Highway Trucks	0.46	2.42	24.2	0.05	0.09	—	0.09	0.09	—	0.09	—	4,908	4,908	0.20	0.04	4,925
Total	3.94	22.9	205	0.42	0.78	—	0.78	0.78	—	0.78	—	41,547	41,547	1.69	0.34	41,690

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.92	4.79	49.4	0.09	0.18	—	0.18	0.18	—	0.18	—	9,690	9,690	0.39	0.08	9,723
Rubber Tired Dozers	0.31	1.62	16.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,323	3,323	0.13	0.03	3,334
Plate Compactors	0.55	2.87	28.7	0.10	0.11	—	0.11	0.11	—	0.11	—	6,272	6,272	0.25	0.05	6,293
Scrapers	1.24	6.46	64.6	0.12	0.25	—	0.25	0.25	—	0.25	—	13,134	13,134	0.53	0.11	13,179
Graders	0.11	0.59	5.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,207	1,207	0.05	0.01	1,211
Other Material Handling Equipment	0.11	2.36	5.06	0.01	0.02	—	0.02	0.02	—	0.02	—	851	851	0.03	0.01	854
Skid Steer Loaders	0.03	0.77	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	149	149	0.01	< 0.005	149
Rubber Tired Loaders	0.19	1.00	9.95	0.02	0.04	—	0.04	0.04	—	0.04	—	2,014	2,014	0.08	0.02	2,021
Off-Highway Trucks	0.46	2.42	24.2	0.05	0.09	—	0.09	0.09	—	0.09	—	4,908	4,908	0.20	0.04	4,925
Total	3.94	22.9	205	0.42	0.78	—	0.78	0.78	—	0.78	—	41,547	41,547	1.69	0.34	41,690
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/Loaders/Backhoes	0.14	0.74	7.58	0.01	0.03	—	0.03	0.03	—	0.03	—	1,349	1,349	0.05	0.01	1,354
Rubber Tired Dozers	0.05	0.25	2.49	< 0.005	0.01	—	0.01	0.01	—	0.01	—	463	463	0.02	< 0.005	464

Plate Compactors	0.08	0.44	4.40	0.01	0.02	—	0.02	0.02	—	0.02	—	873	873	0.04	0.01	876
Scrapers	0.19	0.99	9.92	0.02	0.04	—	0.04	0.04	—	0.04	—	1,829	1,829	0.07	0.01	1,835
Graders	0.02	0.09	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	168	168	0.01	< 0.005	169
Other Material Handling Equipment	0.02	0.36	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	119	119	< 0.005	< 0.005	119
Skid Steer Loaders	< 0.005	0.12	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.7	20.7	< 0.005	< 0.005	20.8
Rubber Tired Loaders	0.03	0.15	1.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	280	280	0.01	< 0.005	281
Off-Highway Trucks	0.07	0.37	3.71	0.01	0.01	—	0.01	0.01	—	0.01	—	683	683	0.03	0.01	686
Total	0.60	3.51	31.5	0.06	0.12	—	0.12	0.12	—	0.12	—	5,786	5,786	0.23	0.05	5,805

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Other Non-Asphalt Surfaces	70.0	70.0	70.0	25,565	868	868	868	316,746

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	0.00	0.00	1,777,248

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

Other Non-Asphalt Surfaces	0.00	589	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
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)
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

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
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	10.0	460	0.37
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	251	0.37

Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	110	0.37
Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	10.0	354	0.40
Plate Compactors	Diesel	Tier 4 Final	2.00	10.0	582	0.43
Scrapers	Diesel	Tier 4 Final	3.00	10.0	500	0.48
Scrapers	Diesel	Tier 4 Final	3.00	10.0	283	0.48
Graders	Diesel	Tier 4 Final	1.00	10.0	253	0.41
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	115	0.37
Other Material Handling Equipment	Diesel	Tier 4 Final	1.00	5.00	180	0.42
Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	69.0	0.37
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	182	0.36
Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	300	0.36
Off-Highway Trucks	Diesel	Tier 4 Final	3.00	10.0	370	0.38
Other Material Handling Equipment	Diesel	Tier 4 Final	1.00	5.00	73.7	0.42
Other Material Handling Equipment	Diesel	Tier 4 Final	2.00	5.00	50.0	0.40

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	The proposed project would generate approximately 3,041 net new average daily trips, including 2,371 truck trips and 70 passenger vehicle trips. This analysis only includes the 70 passenger vehicle trips.
Operations: Fleet Mix	The 70 passenger trips are associated with employee trips only, therefore, this analysis assumes 50% LDA, 25% LDT1, and 25% LDT2.

Operations: Off-Road Equipment	Equipment list, including HP and engine tier, was provided by OC Waste & Recycling. This mitigated run assumes the use of all Tier 4 Final equipment as required by Mitigation Measure 4.1-1.

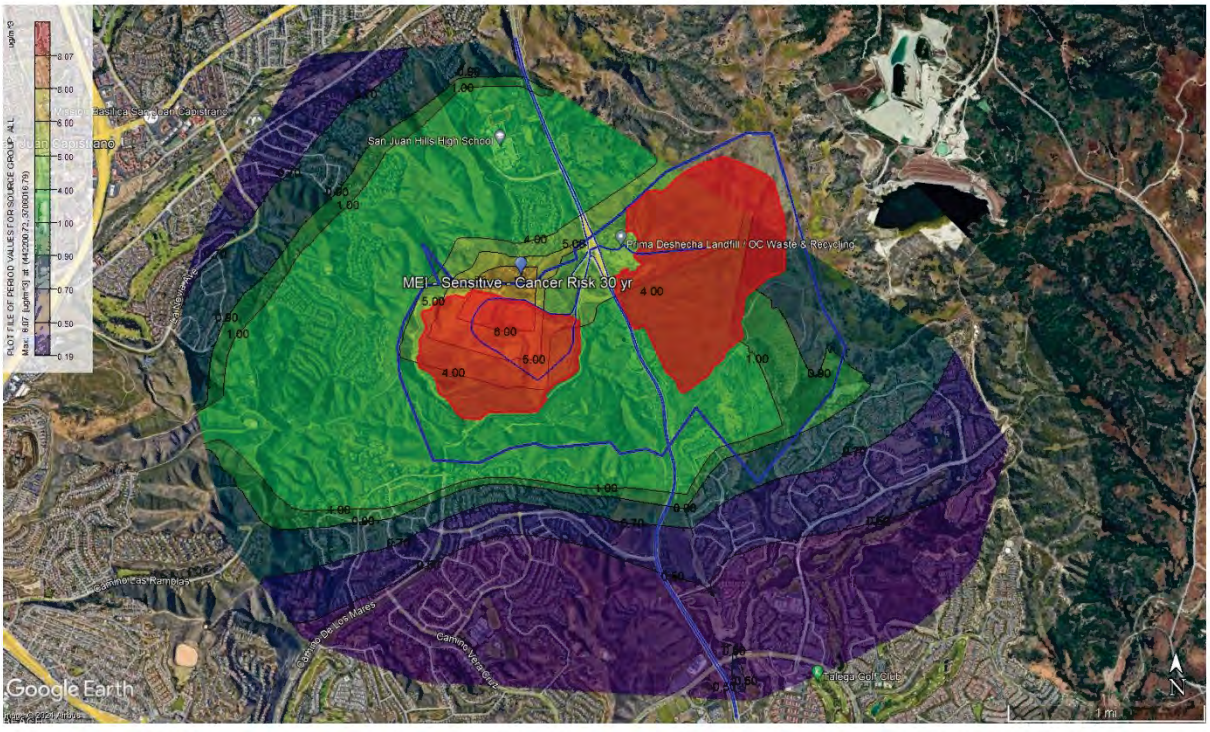
B-2

HEALTH RISK ASSESSMENT (HRA) OUTPUTS

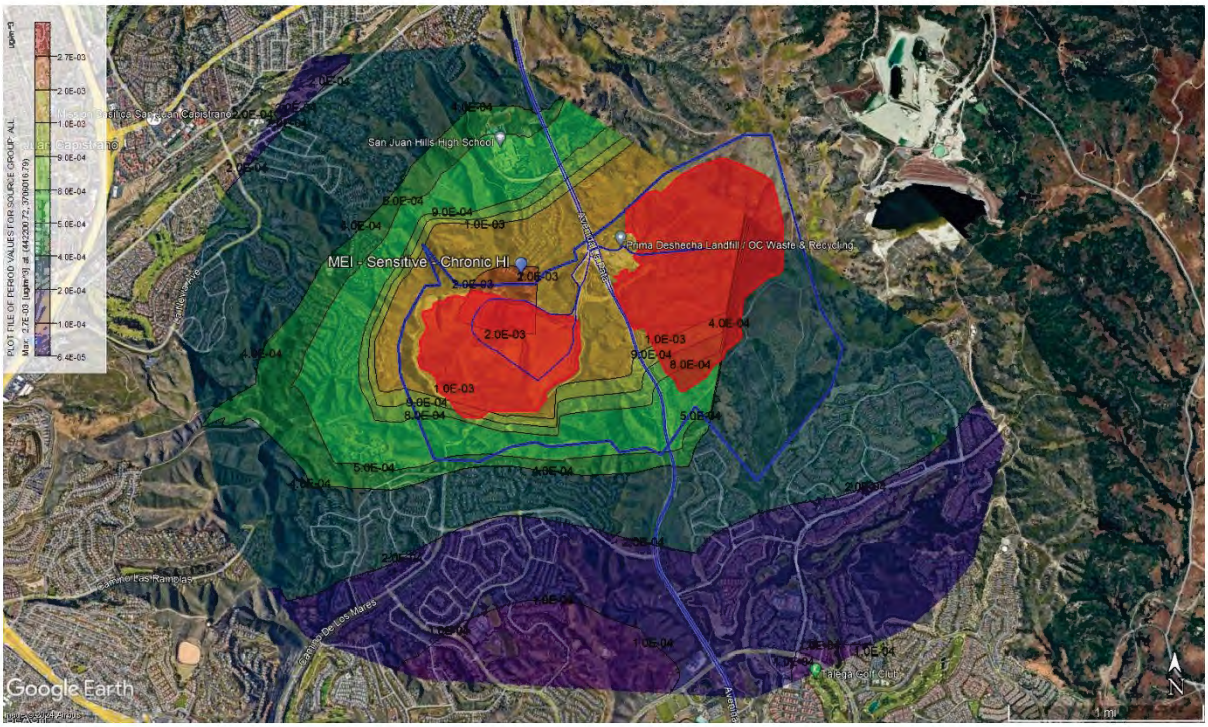
This page intentionally left blank

Project Location

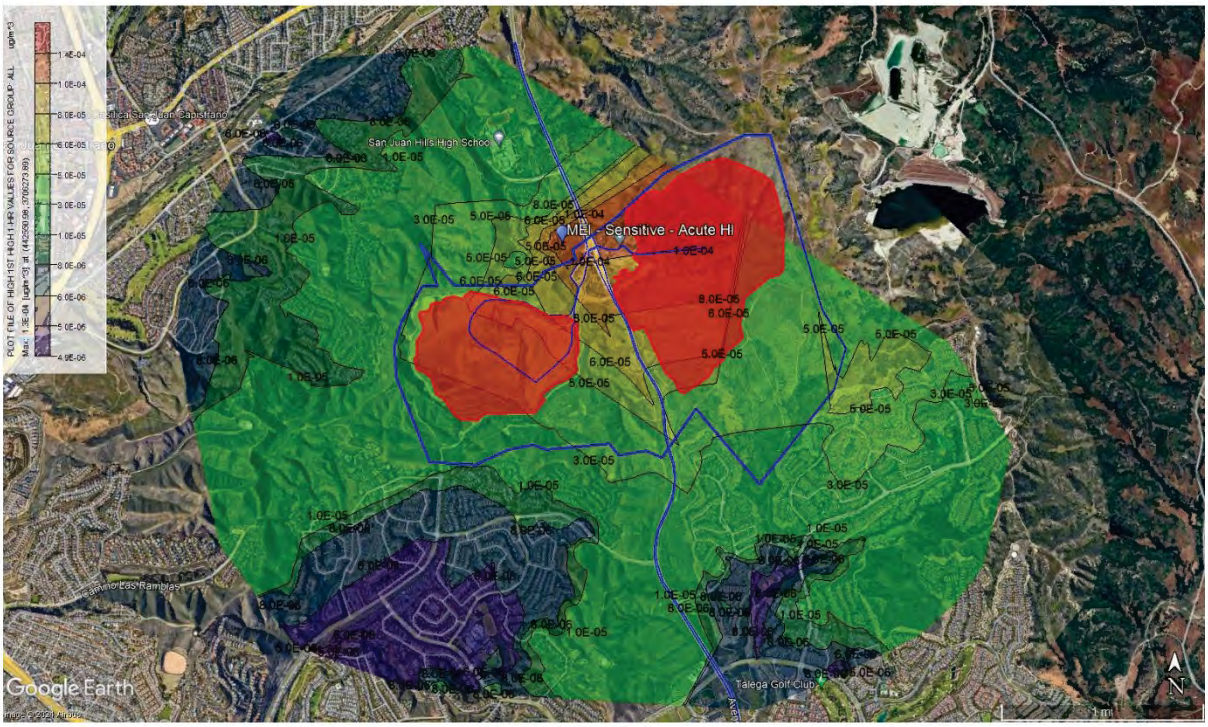
Cancer Risk – Residential Receptor



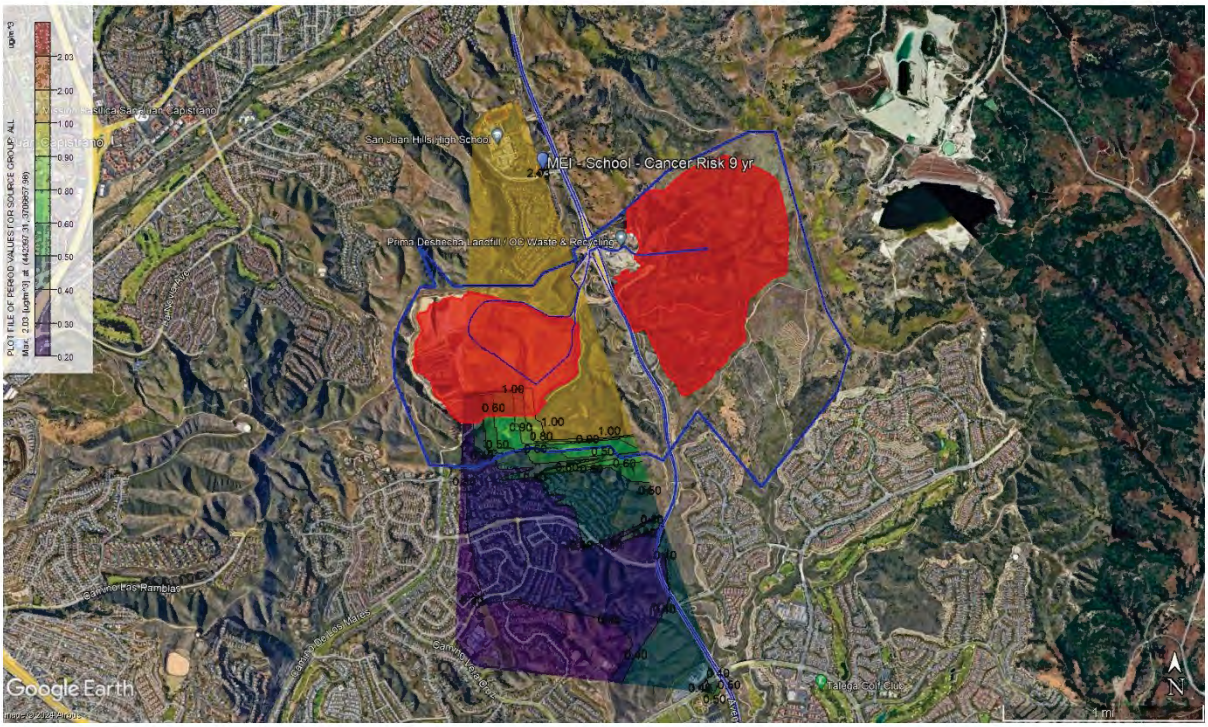
Chronic Hazard Index – Residential Receptor



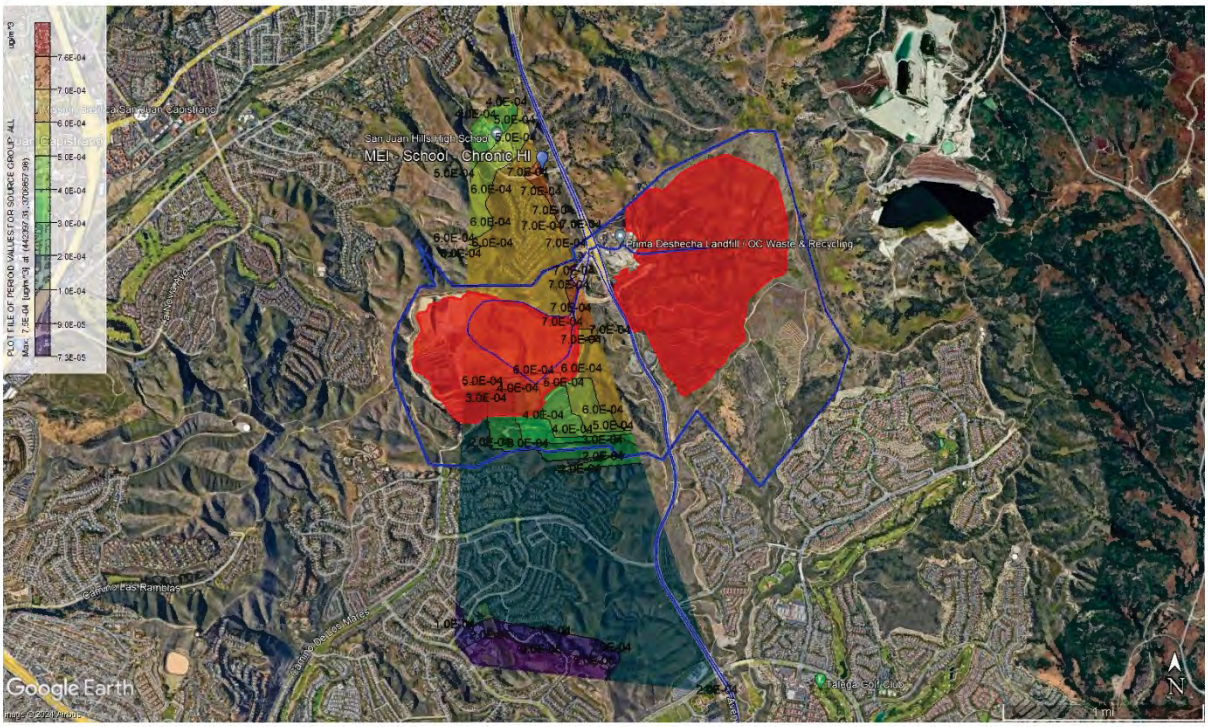
Acute Hazard Index – Residential Receptor



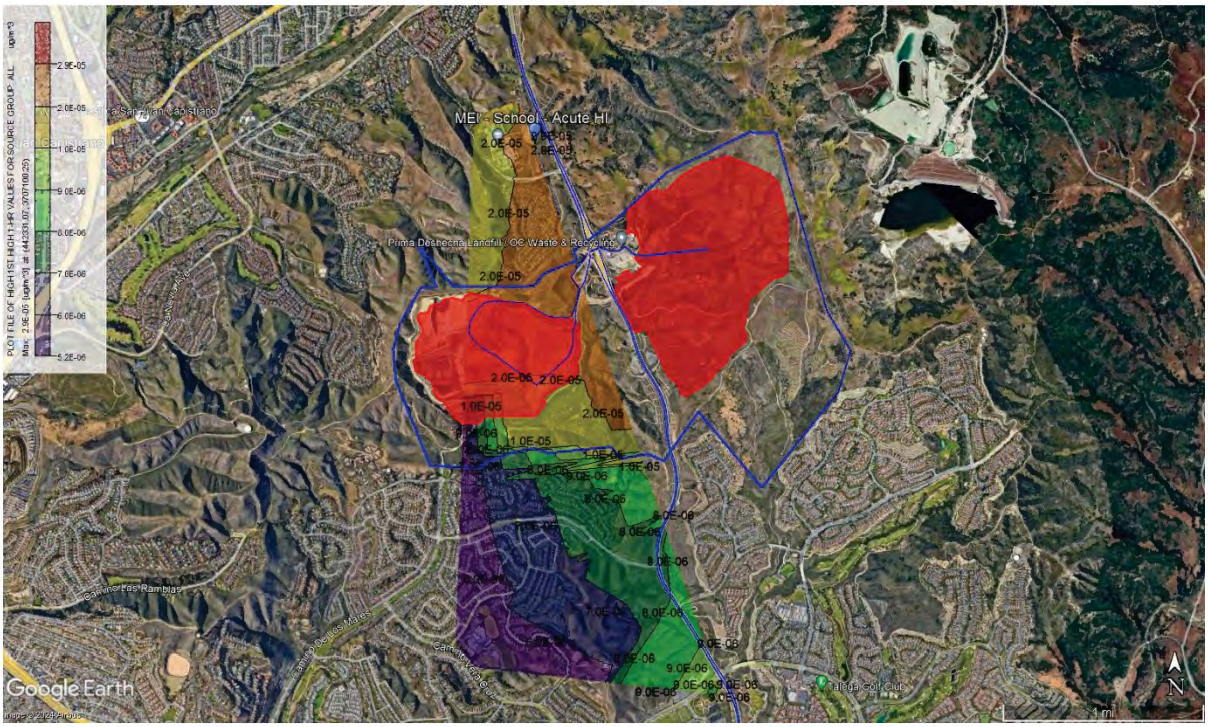
Cancer Risk – School Receptor



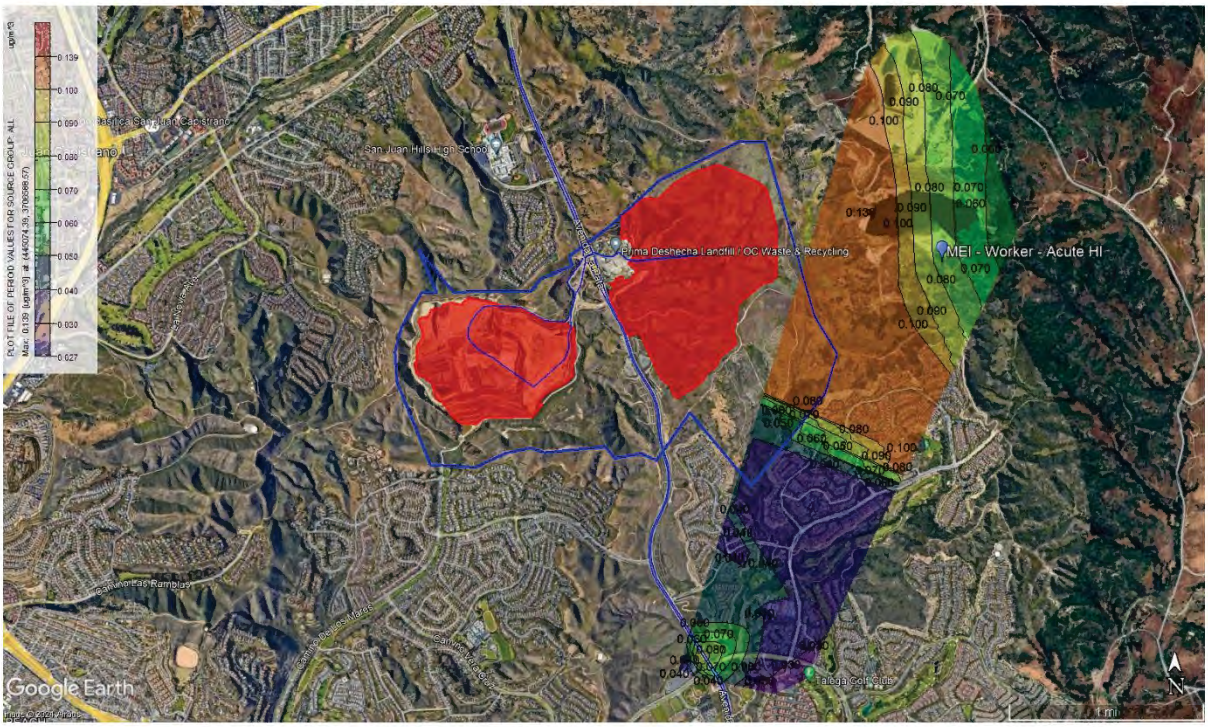
Chronic Hazard Index – School Receptor



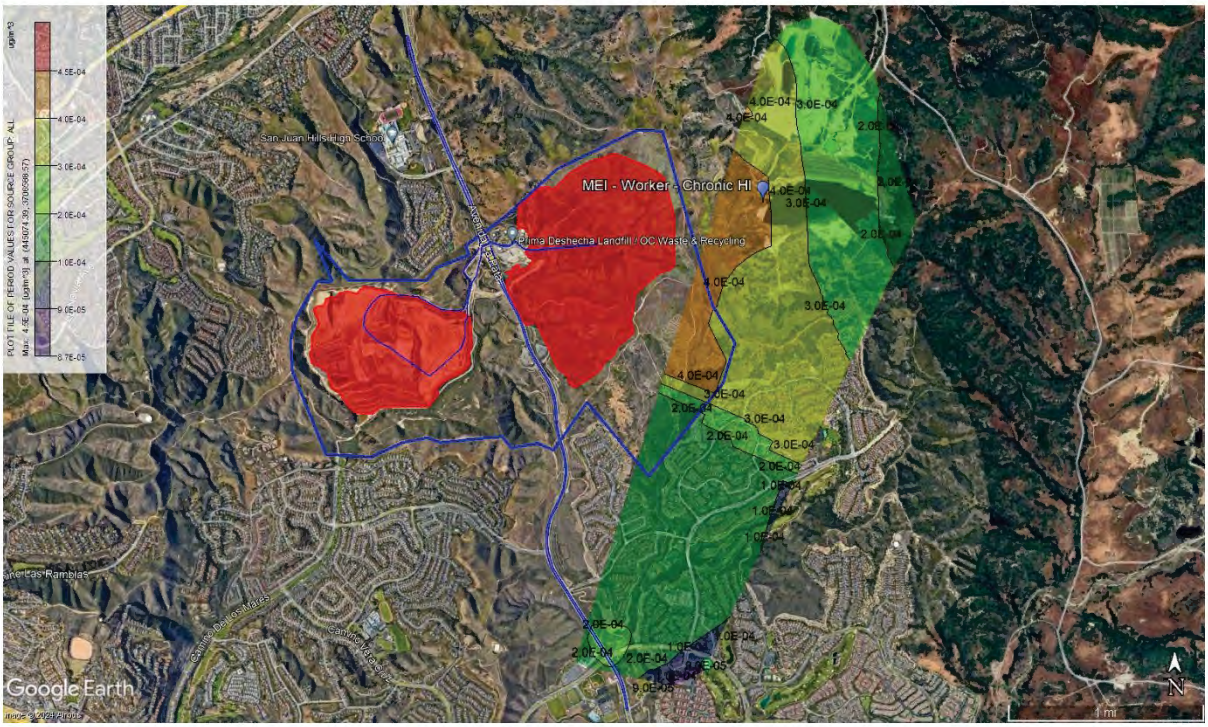
Acute Hazard Index – School Receptor



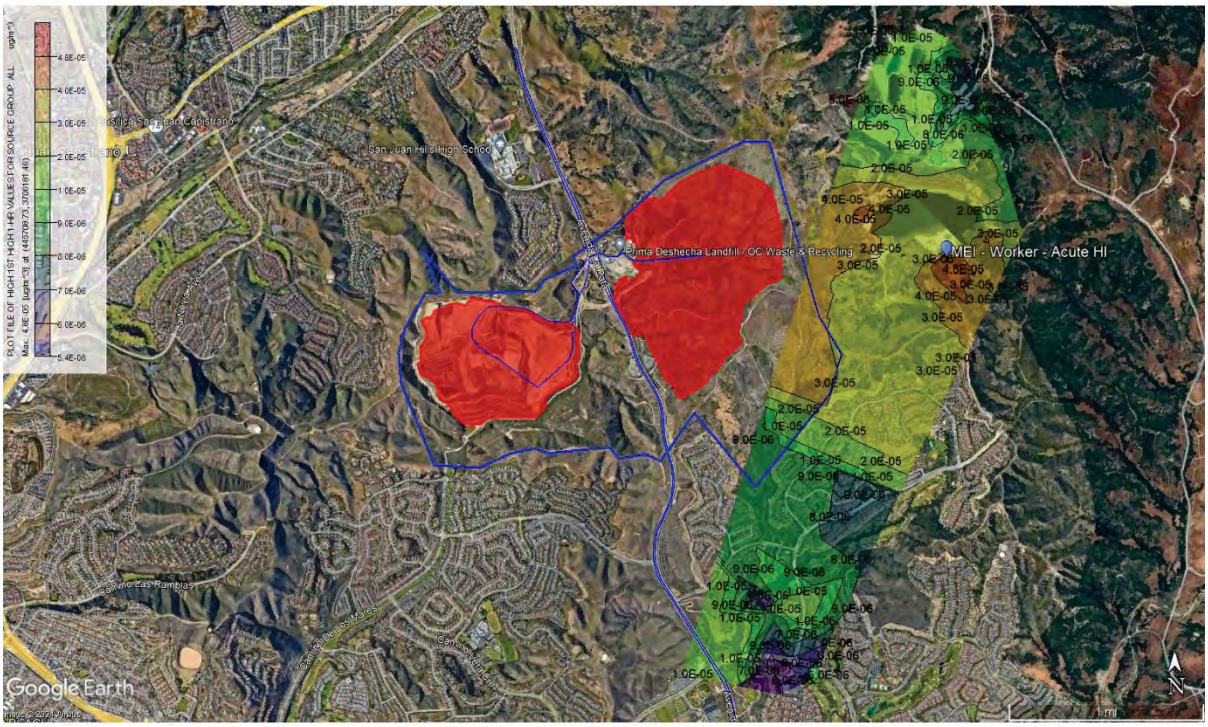
Cancer Risk – Worker Receptor



Chronic Hazard Index – Worker Receptor



Acute Hazard Index – Worker Receptor



Operational Sensitive Receptor			
Parameter	**HARP Rec #**	**X & Y Coordinate**	**Result**
30 Yr Cancer Risk (in a Million)	5532	442200.72 3706016.79	7.99
70 Yr Cancer Risk (in a Million)	0	0 0	0.00
Chronic HI	5532	442200.72 3706016.79	2.71E-03
Acute HI	5655	442550.98 3706273.89	1.19E-04
PM 2.5	5532	442200.72 3706016.79	0.0135

Operational Worker Receptor			
Parameter	**HARP Rec #**	**X & Y Coordinate**	**Result**
25 Yr Cancer Risk (in a Million)	1	445074.39 3706588.57	0.14
Chronic HI	1	445074.39 3706588.57	4.45E-04
Acute HI	693	445708.73 3706181.46	4.38E-05
PM 2.5	1	445074.39 3706588.57	2.23E-03

Operational School Receptor			
Parameter	**HARP Rec #**	**X & Y Coordinate**	**Result**
9 Yr Cancer Risk (in a Million)	161	442397.31 3706857.98	1.98
Chronic HI	161	442397.31 3706857.98	7.33E-04
Acute HI	284	442331.07 3707100.25	2.64E-05
PM 2.5	161	442397.31 3706857.98	0.0037

Zone **11**

Datum **WGS 1984**

KML File Name **OCY2201.38 Project MEI**

Process Coordinates

Description	Receptor Type	Model Type	UTM X	UTM Y	Latitude	Longitude
Operational	Sensitive	Cancer Risk 30 yr	442200.72	3706016.79	33.49210224	-117.6222033
Operational	Sensitive	Cancer Risk 70 yr	0	0		
Operational	Sensitive	Chronic HI	442200.72	3706016.79	33.49210224	-117.6222033
Operational	Sensitive	Acute HI	442550.98	3706273.89	33.49443994	-117.6184494
Operational	Sensitive	PM 2.5	442200.72	3706016.79	33.49210224	-117.6222033
Operational	Worker	Cancer Risk 25 yr	445074.39	3706588.57	33.49741069	-117.591305
Operational	Worker	Chronic HI	445074.39	3706588.57	33.49741069	-117.591305
Operational	Worker	Acute HI	445708.73	3706181.46	33.49377129	-117.5844517
Operational	Worker	PM 2.5	445074.39	3706588.57	33.49741069	-117.591305
Operational	School	Cancer Risk 9 yr	442397.31	3706857.98	33.49969965	-117.6201412
Operational	School	Chronic HI	442397.31	3706857.98	33.49969965	-117.6201412
Operational	School	Acute HI	442331.07	3707100.25	33.50188114	-117.6208699
Operational	School	PM 2.5	442397.31	3706857.98	33.49969965	-117.6201412

General AERMOD Input Parameters			
Project Boundary			
	Based on site plan		
Project Elevation Data			
	Source	**Lakes Environmental**	
	Link	http://www.webgis.com/terraindata.html	
	Evel Data Descr.	**SRTM1 / SRTM3**	
Project Receptor Grid			
	Telescoping Grid	Spacing (m)	Distance (m)
	Grid 1	**25**	**200**
	Grid 2	**50**	**400**
	Grid 3	**100**	**800**
	Grid 4		
	Comments	**Receptors on roads or paring lot areas have been removed.**	
Meteorological Dataset			
	Location	**MSVJ Mission Viejo**	
	Provided By	**South Coast AQMD**	
	Years	**2011 - 2014, 2016**	
	Elevation (m)	**107**	
	Link	https://www.aqmd.gov/docs/default-source/air-quality/meterorological-data/aermod-ready-meteorological-data/table-1-meteorological-sites/2017/MissionViejoADJU.zip?sfvrsn=8	
Operational Modeling Specific Inputs			
AERMOD Input Options			
	Regulatory Options	**Default**	
	Pollutant Type	**Other**	
	Averaging Period	**Period / Hourly**	
	Dispersion Coefficient	**Urban**	
	Urban Grouping / Pop	**Y**	**3,010,232**
	# Worker Receptors	**934**	
	# Sensitive Receptors	**5772**	
	# of School Receptors	**314**	
Diesel Truck Idling Parameters			
	Source Type	**Point**	
	Stack Ht. (m)	**3.658**	
	Stack Dia (m)	**0.044**	
	Stack Temp (k)	**388.7**	
	Velocity (m/s)	**25**	
Diesel Truck Travel Parameters			
	Source Type	**Line Volume**	
	Initial Vertical (m)	**1.42**	
	Initial Lateral (m)	**2.84**	
	Release Ht (m)	**Surface**	
	Volume Length (m)	**Roadway Segment Specific**	

General HARP Input Parameters
Construction

School Receptors		
School Scenario Parameters		
	Class Grade	**K-12**
	Starting Age	**3rd Trimester**
	Age Range	**3rd Trimester - 9 Years Old**
	Receptor Type	**Individual Resident**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**9.25**
	Intake Rate	**RMP using the Derived Merthod**
	Comments	**Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
School Pathway Parameters		
	Pathways	**SCAQMD Manadatory minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs	**N**
	TAH ≥ 16 yrs	**N**
Sensitive Receptors		
Sensitive Scenario Parameters		
	Starting Age	**3rd Trimester**
	Age Range	**3rd Trimester - 30 Year**
	Receptor Type	**Individual Resident**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**30.25**
	Intake Rate	**RMP using the Derived Merthod**
	Comments	**Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
Sensitive Pathway Parameters		
	Pathways	**SCAQMD Manadatory minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs	**Y**
	TAH ≥ 16 yrs	**Y**
Worker Receptors		
Worker Scenario Parameters		
	Starting Age	**16**
	Age Range	**16 - 41**
	Receptor Type	**Worker**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**25**
	Intake Rate	**OEHHA Derived Merthod**
	Comments	**Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
Worker Pathway Parameters		
	Pathways	**OEHHA minimum Pathways**

	Deposition Rate	**0.02**
	TAH < 16 yrs	**N**
	TAH ≥ 16 yrs	**N**

	Num	Type
02 <=360 lbs (.18 ton) NET	146	Car
04 <=880 lbs (.44 ton) NET	742	Car
05 LESS THAN 2.00 TON TRUCK	8	Car
06 2.00-2.49 TON TRUCK	14	2-Axle
07 2.50-2.99 TON TRUCK	54	3-Axle
08 3.00-3.49 TON TRUCK	54	3-Axle
09 3.50-3.99 TON TRUCK	76	3-Axle
10 4.00-4.49 TON TRUCK	98	3-Axle
11 4.50-4.99 TON TRUCK	66	3-Axle
12 5.00-5.99 TON TRUCK	84	3-Axle
13 6.00-6.99 TON TRUCK	48	3-Axle
14 7.00-7.99 TON TRUCK	16	3-Axle
15 8.00-8.99 TON TRUCK	12	3-Axle
16 9.00-11.99 TON TRUCK	16	3-Axle
17 12.00 TON TRUCK & OVER	30	4-Axle
18 TRACTOR-TRAILER COMBINATION	54	3-Axle
19 3 Axle Dump Truck & Trailer	0	3-Axle
20 Tractor W/Double Trailer	16	4-Axle
21 10.00 -11.99 TON TRUCK	2	3-Axle
52 2 AXLE DOB BY WEIGHT	0	2-Axle
53 3 AXLE DOB BY WEIGHT	44	3-Axle
55 5 AXLE DOB BY WEIGHT	0	4-Axle
30 TRANSFER TRUCK COMBINATION	102	3-Axle
32 POD Truck	0	2-Axle
40 < 15 Cubic Yards Side Loader	0	3-Axle
42 2-Axle Side or Rear Loader	4	2-Axle
44 2-Axle Front Loader	0	2-Axle
46 3-Axle Side Loader	26	3-Axle
47 4-Axle Side or Rear Loader	46	4-Axle
48 3-Axle Front Loader	2	3-Axle
49 3-Axle Refuse Tractor Trailer	0	3-Axle
50 4-Axle Front Loader	46	4-Axle

Row Labels	**Sum of Num**
2-Axle	18
3-Axle	754
4-Axle	138
Car	896
Grand Total	**1806**

Row Labels	Sum of Num		
2-Axle	18	0.96%	0.009595
3-Axle	754	40.19%	0.401919
4-Axle	138	7.36%	0.073561
Car	966	51.49%	0.514925
Grand Total	1876	100.00%	1

	Daily Trips
	3041

	Passenger Vehicles	2-Axle Trks	3-Axle Trks	4-Axle Trks	Total
Percentage	51.5%	1.0%	40.2%	7.4%	100%
# Daily Vehicles	1565.89	29.18	1222.24	223.70	3041
# Annual Vehicles	483,859	9,016	377,671	69,123	939,669

Truck Travel

Onsite Truck Travel Emissions			
Category	# of Trucks / Yr	% of Total	DPM EF (lb/Mile)
2-Axle Trks	9,016	2.0%	7.55E+00
3-Axle Trks	377,671	82.9%	2.12E+01
4-Axle Trks	69,123	15.2%	2.01E+00
Total	455,810	100%	---

DPM Lbs/ Yr	OS_IN	OS_OUT	OS_IN2	OS_OUT2			Total
Distance (m)	1848.5	1581.5	906.7	917.6	0	0	5254.3
%	50%	50%	50%	50%	0%	0%	200%
2-Axle Trks	4.34E+00	3.71E+00	2.13E+00	2.15E+00	0.00E+00	0.00E+00	1.23E+01
3-Axle Trks	1.22E+01	1.04E+01	5.98E+00	6.05E+00	0.00E+00	0.00E+00	3.47E+01
4-Axle Trks	1.15E+00	9.87E-01	5.66E-01	5.73E-01	0.00E+00	0.00E+00	3.28E+00
Total	1.77E+01	1.51E+01	8.67E+00	8.78E+00	0.00E+00	0.00E+00	5.03E+01

Offsite Truck Travel Emissions			
Category	# of Trucks / Yr	% of Total	DPM EF (lb/Mile)
2-Axle Trks	9,016	2.0%	4.06E-01
3-Axle Trks	377,671	82.9%	7.96E+00
4-Axle Trks	69,123	15.2%	3.82E+00
Total	455,810	100%	---

DPM Lbs/ Yr	NIN	SIN	NOUT	SOUT			Total
Gas Only	N	N	N	N	N	N	
Distance (m)	1820	4206.2	1891.3	4139.4	0	0	12056.9
%	25%	25%	25%	25%	0%	0%	100%
2-Axle Trks	1.15E-01	2.65E-01	1.19E-01	2.61E-01	0.00E+00	0.00E+00	7.60E-01
3-Axle Trks	2.25E+00	5.21E+00	2.34E+00	5.12E+00	0.00E+00	0.00E+00	1.49E+01
4-Axle Trks	1.08E+00	2.50E+00	1.12E+00	2.46E+00	0.00E+00	0.00E+00	7.15E+00
Total	3.45E+00	7.97E+00	3.58E+00	7.84E+00	0.00E+00	0.00E+00	2.28E+01

Truck Idle

# of Idling Pts	2

Truck Idling						Idle						Total
Category	# of Trucks / Yr	Idle EF (lbs /Idle-Event)	Time (Hr)	Lbs/ Yr	Lbs / Yr /Unit	1	1	0	0	0	0	2
2-Axle Trks	9,016	6.11E-05	0.25	1.38E-01	6.89E-02	6.89E-02	6.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01
3-Axle Trks	377,671	4.01E-05	0.25	3.79E+00	1.89E+00	1.89E+00	1.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E+00
4-Axle Trks	69,123	7.23E-05	0.25	1.25E+00	6.25E-01	6.25E-01	6.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00
Total	455,810	--	--	5.17E+00	2.59E+00	2.59E+00	2.59E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E+00

TRUs

Percent of Trucks	0	# of Units	1

Onsite TRU Emissions					
Category	Percentage	# of TRUs / Yr	Time (Hr)	*DPM EF (lbs/Event)	Emissions (lb/Yr)
2-Axle Trks	15.5	0	0.50	4.19E-03	0.00
3-Axle Trks	4.9	0			0.00
4-Axle Trks	24.3	0			0.00
Total	45	0	Emission/Unit		0.00

* TRU EF * BHP * Load factor * Time in hours

Vehicle Emissions

Vehicle Travel Percentage / Count			
Category	# of Vehicles / Yr	% LDA	% LDT
Passenger Vehicles	483,859	63%	37.01%
# Vehicles		304,777	179,083

Category	TOG Exhaust EF (lb/Mile)	TOG Runloss EF (lb/Mile)
LDA	2.79E-05	4.78E-04
LDT	5.34E-05	6.78E-04

CARB TOG Speciation Profile Run Exhaust			lbs/mi/yr	
CAS#	Chemical Name	Fraction	LDA	LDT
75070	Acetaldehyde	2.80E-03	2.38E-02	2.68E-02
107028	Acrolein	1.30E-03	1.10E-02	1.24E-02
71432	Benzene	2.47E-02	2.10E-01	2.36E-01
106990	1,3-Butadiene	5.50E-03	4.67E-02	5.26E-02
100414	Ethylbenzene	1.05E-02	8.91E-02	1.00E-01
50000	Formaldehyde	1.58E-02	1.34E-01	1.51E-01
110543	Hexane	1.60E-02	1.36E-01	1.53E-01
67561	Methanol	1.20E-03	1.02E-02	1.15E-02
78933	Methyl Ethyl Ketone	2.00E-04	1.70E-03	1.91E-03
91203	Naphthalene	5.00E-04	4.24E-03	4.78E-03
115071	Propylene	3.06E-02	2.60E-01	2.93E-01
100425	Styrene	1.20E-03	1.02E-02	1.15E-02
108883	Toluene	5.76E-02	4.89E-01	5.51E-01
1330207	Xylenes	4.80E-02	4.08E-01	4.59E-01
9901	Diesel	1.10E-02	7.39E+00	4.35E+00

CARB TOG Speciation Profile Evaporative Losses			lbs/mi/yr	
CAS#	Chemical Name	Fraction	LDA	LDT
71432	Benzene	3.600E-03	3.06E-02	3.44E-02
100414	Ethylbenzene	1.180E-03	1.00E-02	1.13E-02
110543	Hexane	1.540E-02	1.31E-01	1.47E-01
108883	Toluene	1.700E-02	1.44E-01	1.63E-01
1330207	Xylenes	5.780E-03	4.91E-02	5.53E-02

Vehicle Emissions Travel Summary

Emissions Summary				Source Col	1		2		3		4		5		6		7		8		9		10		11		12			
				Vehicles	OS_IN		OS_OUT		OS_IN2		OS_OUT2		0		0		NIN		SIN		NOUT		SOUT		0		0		Total Percentage	Total Distance
				Cars	50%		50%		50%		50%		0%		0%		25%		25%		25%		25%		0%		0%			
					50.00%		50.00%		50.00%		50.00%		0.00%		0.00%		25.00%		25.00%		25.00%		25.00%		0.00%		0.00%		300.00%	17311.2
				Trucks	50%		50%		50%		50%		0%		0%		25%		25%		25%		25%		0%		0%			
					50.00%		50.00%		50.00%		50.00%		0.06%		0.00%		0.01%		0.03%		0.01%		0.03%		0.00%		0.00%			
CAS#	Chemical Name	Lbs/mi/Hr	Lbs/mi/ Yr		Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr
75070	Acetaldehyde	1.68E-05	5.05E-02		8.42E-06	2.53E-02	8.42E-06	2.53E-02	8.42E-06	2.53E-02	8.42E-06	2.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-06	3.16E-03	1.05E-06	3.16E-03	1.05E-06	3.16E-03	1.05E-06	3.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	1.14E-01
107028	Acrolein	7.82E-06	2.35E-02		3.91E-06	1.17E-02	3.91E-06	1.17E-02	3.91E-06	1.17E-02	3.91E-06	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-07	1.47E-03	4.89E-07	1.47E-03	4.89E-07	1.47E-03	4.89E-07	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	5.28E-02
71432	Benzene	1.70E-04	5.11E-01		8.51E-05	2.55E-01	8.51E-05	2.55E-01	8.51E-05	2.55E-01	8.51E-05	2.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	3.19E-02	1.06E-05	3.19E-02	1.06E-05	3.19E-02	1.06E-05	3.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	1.15E+00
106990	1,3-Butadiene	3.31E-05	9.93E-02		1.65E-05	4.96E-02	1.65E-05	4.96E-02	1.65E-05	4.96E-02	1.65E-05	4.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-06	6.20E-03	2.07E-06	6.20E-03	2.07E-06	6.20E-03	2.07E-06	6.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	2.23E-01
100414	Ethylbenzene	7.03E-05	2.11E-01		3.51E-05	1.05E-01	3.51E-05	1.05E-01	3.51E-05	1.05E-01	3.51E-05	1.05E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-06	1.32E-02	4.39E-06	1.32E-02	4.39E-06	1.32E-02	4.39E-06	1.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	4.74E-01
50000	Formaldehyde	9.51E-05	2.85E-01		4.75E-05	1.43E-01	4.75E-05	1.43E-01	4.75E-05	1.43E-01	4.75E-05	1.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06	1.78E-02	5.94E-06	1.78E-02	5.94E-06	1.78E-02	5.94E-06	1.78E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	6.42E-01
110543	Hexane	1.89E-04	5.67E-01		9.45E-05	2.83E-01	9.45E-05	2.83E-01	9.45E-05	2.83E-01	9.45E-05	2.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	3.54E-02	1.18E-05	3.54E-02	1.18E-05	3.54E-02	1.18E-05	3.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	1.28E+00
67561	Methanol	7.22E-06	2.17E-02		3.61E-06	1.08E-02	3.61E-06	1.08E-02	3.61E-06	1.08E-02	3.61E-06	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-07	1.35E-03	4.51E-07	1.35E-03	4.51E-07	1.35E-03	4.51E-07	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	4.87E-02
78933	Methyl Ethyl Ketone	1.20E-06	3.61E-03		6.02E-07	1.80E-03	6.02E-07	1.80E-03	6.02E-07	1.80E-03	6.02E-07	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-08	2.26E-04	7.52E-08	2.26E-04	7.52E-08	2.26E-04	7.52E-08	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-06	8.12E-03
91203	Naphthalene	3.01E-06	9.02E-03		1.50E-06	4.51E-03	1.50E-06	4.51E-03	1.50E-06	4.51E-03	1.50E-06	4.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-07	5.64E-04	1.88E-07	5.64E-04	1.88E-07	5.64E-04	1.88E-07	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06	2.03E-02
115071	Propylene	1.84E-04	5.52E-01		9.21E-05	2.76E-01	9.21E-05	2.76E-01	9.21E-05	2.76E-01	9.21E-05	2.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	3.45E-02	1.15E-05	3.45E-02	1.15E-05	3.45E-02	1.15E-05	3.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	1.24E+00
100425	Styrene	7.22E-06	2.17E-02		3.61E-06	1.08E-02	3.61E-06	1.08E-02	3.61E-06	1.08E-02	3.61E-06	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-07	1.35E-03	4.51E-07	1.35E-03	4.51E-07	1.35E-03	4.51E-07	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	4.87E-02
108883	Toluene	4.49E-04	1.35E+00		2.24E-04	6.73E-01	2.24E-04	6.73E-01	2.24E-04	6.73E-01	2.24E-04	6.73E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	8.42E-02	2.81E-05	8.42E-02	2.81E-05	8.42E-02	2.81E-05	8.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	3.03E+00
1330207	Xylenes	3.24E-04	9.71E-01		1.62E-04	4.85E-01	1.62E-04	4.85E-01	1.62E-04	4.85E-01	1.62E-04	4.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	6.07E-02	2.02E-05	6.07E-02	2.02E-05	6.07E-02	2.02E-05	6.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04	2.18E+00
9901	Diesel	3.91E-03	1.17E+01		1.96E-03	2.36E+01	1.96E-03	2.10E+01	1.96E-03	1.45E+01	9.78E-04	1.17E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	4.18E+00	2.45E-04	8.70E+00	2.45E-04	4.32E+00	2.45E-04	8.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03	9.66E+01

	Model Source	Source Col	Dat Col		Col	Row	CAS#	Chemical Name	Pol Count	Source Count
1	OS_IN	1	8	1	8	98	75070	Acetaldehyde	15	19
2	OS_OUT	2	10	2	10	99	107028	Acrolein		
3	OS_IN2	3	12	3	12	100	71432	Benzene		
4	OS_OUT2	4	14	4	14	101	106990	1-3,Butadiene		
5	0	5	16	5	16	102	100414	Ethylbenzene		
6	0	6	18	6	18	103	50000	Formaldehyde		
7	NIN	7	20	7	20	104	110543	Hexane		
8	SIN	8	22	8	22	105	67561	Methanol		
9	NOUT	9	24	9	24	106	78933	Methyl Ethyl Ketone		
10	SOUT	10	26	10	26	107	91203	Naphthalene		
11	0	11	28	11	28	108	115071	Propylene		
12	0	12	30	12	30	109	100425	Styrene		
13	Idle	Idle1	8		8	110	108883	Toluene		
14	0	Idle1	9		8	111	1330207	Xylenes		
15	0	Idle1	10		8	112	9901	Diesel		
16	0	Idle1	11		8					
17	0	Idle1	12		8	37		Idle		
18	0	Idle1	13		7	47		TRU		
19	TRU	TRU	7							
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										

1	8	98	1	1	OS_IN	0	0	75070	Acetaldehyde	2.8	2.53E-02	8.42E-06	1
1	8	99	1	2	OS_IN	0	0	107028	Acrolein	2.8	1.17E-02	3.91E-06	1
1	8	100	1	3	OS_IN	0	0	71432	Benzene	2.8	2.55E-01	8.51E-05	1
1	8	101	1	4	OS_IN	0	0	106990	1-3,Butadiene	2.8	4.96E-02	1.65E-05	1
1	8	102	1	5	OS_IN	0	0	100414	Ethylbenzene	2.8	1.05E-01	3.51E-05	1
1	8	103	1	6	OS_IN	0	0	50000	Formaldehyde	2.8	1.43E-01	4.75E-05	1
1	8	104	1	7	OS_IN	0	0	110543	Hexane	2.8	2.83E-01	9.45E-05	1
1	8	105	1	8	OS_IN	0	0	67561	Methanol	2.8	1.08E-02	3.61E-06	1
1	8	106	1	9	OS_IN	0	0	78933	Methyl Ethyl Ketone	2.8	1.80E-03	6.02E-07	1
1	8	107	1	10	OS_IN	0	0	91203	Naphthalene	2.8	4.51E-03	1.50E-06	1
1	8	108	1	11	OS_IN	0	0	115071	Propylene	2.8	2.76E-01	9.21E-05	1
1	8	109	1	12	OS_IN	0	0	100425	Styrene	2.8	1.08E-02	3.61E-06	1
1	8	110	1	13	OS_IN	0	0	108883	Toluene	2.8	6.73E-01	2.24E-04	1
1	8	111	1	14	OS_IN	0	0	1330207	Xylenes	2.8	4.85E-01	1.62E-04	1
1	8	112	1	15	OS_IN	0	0	9901	Diesel	2.8	2.36E+01	1.96E-03	1
2	10	98	2	1	OS_OUT	0	0	75070	Acetaldehyde	2.8	2.53E-02	8.42E-06	1
2	10	99	2	2	OS_OUT	0	0	107028	Acrolein	2.8	1.17E-02	3.91E-06	1
2	10	100	2	3	OS_OUT	0	0	71432	Benzene	2.8	2.55E-01	8.51E-05	1
2	10	101	2	4	OS_OUT	0	0	106990	1-3,Butadiene	2.8	4.96E-02	1.65E-05	1
2	10	102	2	5	OS_OUT	0	0	100414	Ethylbenzene	2.8	1.05E-01	3.51E-05	1
2	10	103	2	6	OS_OUT	0	0	50000	Formaldehyde	2.8	1.43E-01	4.75E-05	1
2	10	104	2	7	OS_OUT	0	0	110543	Hexane	2.8	2.83E-01	9.45E-05	1
2	10	105	2	8	OS_OUT	0	0	67561	Methanol	2.8	1.08E-02	3.61E-06	1
2	10	106	2	9	OS_OUT	0	0	78933	Methyl Ethyl Ketone	2.8	1.80E-03	6.02E-07	1
2	10	107	2	10	OS_OUT	0	0	91203	Naphthalene	2.8	4.51E-03	1.50E-06	1
2	10	108	2	11	OS_OUT	0	0	115071	Propylene	2.8	2.76E-01	9.21E-05	1
2	10	109	2	12	OS_OUT	0	0	100425	Styrene	2.8	1.08E-02	3.61E-06	1
2	10	110	2	13	OS_OUT	0	0	108883	Toluene	2.8	6.73E-01	2.24E-04	1
2	10	111	2	14	OS_OUT	0	0	1330207	Xylenes	2.8	4.85E-01	1.62E-04	1
2	10	112	2	15	OS_OUT	0	0	9901	Diesel	2.8	2.10E+01	1.96E-03	1
3	12	98	3	1	OS_IN2	0	0	75070	Acetaldehyde	2.8	2.53E-02	8.42E-06	1
3	12	99	3	2	OS_IN2	0	0	107028	Acrolein	2.8	1.17E-02	3.91E-06	1
3	12	100	3	3	OS_IN2	0	0	71432	Benzene	2.8	2.55E-01	8.51E-05	1
3	12	101	3	4	OS_IN2	0	0	106990	1-3,Butadiene	2.8	4.96E-02	1.65E-05	1
3	12	102	3	5	OS_IN2	0	0	100414	Ethylbenzene	2.8	1.05E-01	3.51E-05	1
3	12	103	3	6	OS_IN2	0	0	50000	Formaldehyde	2.8	1.43E-01	4.75E-05	1
3	12	104	3	7	OS_IN2	0	0	110543	Hexane	2.8	2.83E-01	9.45E-05	1
3	12	105	3	8	OS_IN2	0	0	67561	Methanol	2.8	1.08E-02	3.61E-06	1
3	12	106	3	9	OS_IN2	0	0	78933	Methyl Ethyl Ketone	2.8	1.80E-03	6.02E-07	1
3	12	107	3	10	OS_IN2	0	0	91203	Naphthalene	2.8	4.51E-03	1.50E-06	1
3	12	108	3	11	OS_IN2	0	0	115071	Propylene	2.8	2.76E-01	9.21E-05	1
3	12	109	3	12	OS_IN2	0	0	100425	Styrene	2.8	1.08E-02	3.61E-06	1
3	12	110	3	13	OS_IN2	0	0	108883	Toluene	2.8	6.73E-01	2.24E-04	1
3	12	111	3	14	OS_IN2	0	0	1330207	Xylenes	2.8	4.85E-01	1.62E-04	1
3	12	112	3	15	OS_IN2	0	0	9901	Diesel	2.8	1.45E+01	1.96E-03	1
4	14	98	4	1	OS_OUT2	0	0	75070	Acetaldehyde	2.8	2.53E-02	8.42E-06	1
4	14	99	4	2	OS_OUT2	0	0	107028	Acrolein	2.8	1.17E-02	3.91E-06	1
4	14	100	4	3	OS_OUT2	0	0	71432	Benzene	2.8	2.55E-01	8.51E-05	1
4	14	101	4	4	OS_OUT2	0	0	106990	1-3,Butadiene	2.8	4.96E-02	1.65E-05	1
4	14	102	4	5	OS_OUT2	0	0	100414	Ethylbenzene	2.8	1.05E-01	3.51E-05	1
4	14	103	4	6	OS_OUT2	0	0	50000	Formaldehyde	2.8	1.43E-01	4.75E-05	1
4	14	104	4	7	OS_OUT2	0	0	110543	Hexane	2.8	2.83E-01	9.45E-05	1
4	14	105	4	8	OS_OUT2	0	0	67561	Methanol	2.8	1.08E-02	3.61E-06	1
4	14	106	4	9	OS_OUT2	0	0	78933	Methyl Ethyl Ketone	2.8	1.80E-03	6.02E-07	1
4	14	107	4	10	OS_OUT2	0	0	91203	Naphthalene	2.8	4.51E-03	1.50E-06	1
4	14	108	4	11	OS_OUT2	0	0	115071	Propylene	2.8	2.76E-01	9.21E-05	1
4	14	109	4	12	OS_OUT2	0	0	100425	Styrene	2.8	1.08E-02	3.61E-06	1
4	14	110	4	13	OS_OUT2	0	0	108883	Toluene	2.8	6.73E-01	2.24E-04	1
4	14	111	4	14	OS_OUT2	0	0	1330207	Xylenes	2.8	4.85E-01	1.62E-04	1
4	14	112	4	15	OS_OUT2	0	0	9901	Diesel	2.8	1.17E+01	9.78E-04	1
5	16	98	5	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
5	16	99	5	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
5	16	100	5	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
5	16	101	5	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
5	16	102	5	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
5	16	103	5	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
5	16	104	5	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
5	16	105	5	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
5	16	106	5	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
5	16	107	5	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
5	16	108	5	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
5	16	109	5	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
5	16	110	5	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
5	16	111	5	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
5	16	112	5	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
6	18	98	6	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
6	18	99	6	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
6	18	100	6	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
6	18	101	6	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
6	18	102	6	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
6	18	103	6	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
6	18	104	6	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
6	18	105	6	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
6	18	106	6	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
6	18	107	6	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
6	18	108	6	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
6	18	109	6	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
6	18	110	6	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
6	18	111	6	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
6	18	112	6	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
7	20	98	7	1	NIN	0	0	75070	Acetaldehyde	2.8	3.16E-03	1.05E-06	1
7	20	99	7	2	NIN	0	0	107028	Acrolein	2.8	1.47E-03	4.89E-07	1
7	20	100	7	3	NIN	0	0	71432	Benzene	2.8	3.19E-02	1.06E-05	1
7	20	101	7	4	NIN	0	0	106990	1-3,Butadiene	2.8	6.20E-03	2.07E-06	1
7	20	102	7	5	NIN	0	0	100414	Ethylbenzene	2.8	1.32E-02	4.39E-06	1
7	20	103	7	6	NIN	0	0	50000	Formaldehyde	2.8	1.78E-02	5.94E-06	1
7	20	104	7	7	NIN	0	0	110543	Hexane	2.8	3.54E-02	1.18E-05	1
7	20	105	7	8	NIN	0	0	67561	Methanol	2.8	1.35E-03	4.51E-07	1
7	20	106	7	9	NIN	0	0	78933	Methyl Ethyl Ketone	2.8	2.26E-04	7.52E-08	1
7	20	107	7	10	NIN	0	0	91203	Naphthalene	2.8	5.64E-04	1.88E-07	1
7	20	108	7	11	NIN	0	0	115071	Propylene	2.8	3.45E-02	1.15E-05	1
7	20	109	7	12	NIN	0	0	100425	Styrene	2.8	1.35E-03	4.51E-07	1
7	20	110	7	13	NIN	0	0	108883	Toluene	2.8	8.42E-02	2.81E-05	1
7	20	111	7	14	NIN	0	0	1330207	Xylenes	2.8	6.07E-02	2.02E-05	1
7	20	112	7	15	NIN	0	0	9901	Diesel	2.8	4.18E+00	2.45E-04	1
8	22	98	8	1	SIN	0	0	75070	Acetaldehyde	2.8	3.16E-03	1.05E-06	1
8	22	99	8	2	SIN	0	0	107028	Acrolein	2.8	1.47E-03	4.89E-07	1
8	22	100	8	3	SIN	0	0	71432	Benzene	2.8	3.19E-02	1.06E-05	1
8	22	101	8	4	SIN	0	0	106990	1-3,Butadiene	2.8	6.20E-03	2.07E-06	1
8	22	102	8	5	SIN	0	0	100414	Ethylbenzene	2.8	1.32E-02	4.39E-06	1
8	22	103	8	6	SIN	0	0	50000	Formaldehyde	2.8	1.78E-02	5.94E-06	1
8	22	104	8	7	SIN	0	0	110543	Hexane	2.8	3.54E-02	1.18E-05	1
8	22	105	8	8	SIN	0	0	67561	Methanol	2.8	1.35E-03	4.51E-07	1
8	22	106	8	9	SIN	0	0	78933	Methyl Ethyl Ketone	2.8	2.26E-04	7.52E-08	1
8	22	107	8	10	SIN	0	0	91203	Naphthalene	2.8	5.64E-04	1.88E-07	1
8	22	108	8	11	SIN	0	0	115071	Propylene	2.8	3.45E-02	1.15E-05	1
8	22	109	8	12	SIN	0	0	100425	Styrene	2.8	1.35E-03	4.51E-07	1
8	22	110	8	13	SIN	0	0	108883	Toluene	2.8	8.42E-02	2.81E-05	1
8	22	111	8	14	SIN	0	0	1330207	Xylenes	2.8	6.07E-02	2.02E-05	1
8	22	112	8	15	SIN	0	0	9901	Diesel	2.8	8.70E+00	2.45E-04	1
9	24	98	9	1	NOUT	0	0	75070	Acetaldehyde	2.8	3.16E-03	1.05E-06	1
9	24	99	9	2	NOUT	0	0	107028	Acrolein	2.8	1.47E-03	4.89E-07	1
9	24	100	9	3	NOUT	0	0	71432	Benzene	2.8	3.19E-02	1.06E-05	1
9	24	101	9	4	NOUT	0	0	106990	1-3,Butadiene	2.8	6.20E-03	2.07E-06	1
9	24	102	9	5	NOUT	0	0	100414	Ethylbenzene	2.8	1.32E-02	4.39E-06	1
9	24	103	9	6	NOUT	0	0	50000	Formaldehyde	2.8	1.78E-02	5.94E-06	1
9	24	104	9	7	NOUT	0	0	110543	Hexane	2.8	3.54E-02	1.18E-05	1
9	24	105	9	8	NOUT	0	0	67561	Methanol	2.8	1.35E-03	4.51E-07	1
9	24	106	9	9	NOUT	0	0	78933	Methyl Ethyl Ketone	2.8	2.26E-04	7.52E-08	1
9	24	107	9	10	NOUT	0	0	91203	Naphthalene	2.8	5.64E-04	1.88E-07	1
9	24	108	9	11	NOUT	0	0	115071	Propylene	2.8	3.45E-02	1.15E-05	1
9	24	109	9	12	NOUT	0	0	100425	Styrene	2.8	1.35E-03	4.51E-07	1
9	24	110	9	13	NOUT	0	0	108883	Toluene	2.8	8.42E-02	2.81E-05	1
9	24	111	9	14	NOUT	0	0	1330207	Xylenes	2.8	6.07E-02	2.02E-05	1
9	24	112	9	15	NOUT	0	0	9901	Diesel	2.8	4.32E+00	2.45E-04	1
10	26	98	10	1	SOUT	0	0	75070	Acetaldehyde	2.8	3.16E-03	1.05E-06	1
10	26	99	10	2	SOUT	0	0	107028	Acrolein	2.8	1.47E-03	4.89E-07	1
10	26	100	10	3	SOUT	0	0	71432	Benzene	2.8	3.19E-02	1.06E-05	1
10	26	101	10	4	SOUT	0	0	106990	1-3,Butadiene	2.8	6.20E-03	2.07E-06	1
10	26	102	10	5	SOUT	0	0	100414	Ethylbenzene	2.8	1.32E-02	4.39E-06	1
10	26	103	10	6	SOUT	0	0	50000	Formaldehyde	2.8	1.78E-02	5.94E-06	1
10	26	104	10	7	SOUT	0	0	110543	Hexane	2.8	3.54E-02	1.18E-05	1
10	26	105	10	8	SOUT	0	0	67561	Methanol	2.8	1.35E-03	4.51E-07	1
10	26	106	10	9	SOUT	0	0	78933	Methyl Ethyl Ketone	2.8	2.26E-04	7.52E-08	1
10	26	107	10	10	SOUT	0	0	91203	Naphthalene	2.8	5.64E-04	1.88E-07	1
10	26	108	10	11	SOUT	0	0	115071	Propylene	2.8	3.45E-02	1.15E-05	1

10	26	109	10	12	SOUT		0	0	100425	Styrene	2.8	1.35E-03	4.51E-07	1
10	26	110	10	13	SOUT		0	0	108883	Toluene	2.8	8.42E-02	2.81E-05	1
10	26	111	10	14	SOUT		0	0	1330207	Xylenes	2.8	6.07E-02	2.02E-05	1
10	26	112	10	15	SOUT		0	0	9901	Diesel	2.8	8.57E+00	2.45E-04	1
11	28	98	11	1	0	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
11	28	99	11	2	0	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
11	28	100	11	3	0	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
11	28	101	11	4	0	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
11	28	102	11	5	0	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
11	28	103	11	6	0	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
11	28	104	11	7	0	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
11	28	105	11	8	0	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
11	28	106	11	9	0	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
11	28	107	11	10	0	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
11	28	108	11	11	0	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
11	28	109	11	12	0	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
11	28	110	11	13	0	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
11	28	111	11	14	0	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
11	28	112	11	15	0	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
12	30	98	12	1	0	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
12	30	99	12	2	0	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
12	30	100	12	3	0	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
12	30	101	12	4	0	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
12	30	102	12	5	0	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
12	30	103	12	6	0	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
12	30	104	12	7	0	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
12	30	105	12	8	0	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
12	30	106	12	9	0	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
12	30	107	12	10	0	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
12	30	108	12	11	0	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
12	30	109	12	12	0	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
12	30	110	12	13	0	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
12	30	111	12	14	0	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
12	30	112	12	15	0	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	8	98	13	1	Idle		0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	8	99	13	2	Idle		0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	8	100	13	3	Idle		0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	8	101	13	4	Idle		0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	8	102	13	5	Idle		0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	8	103	13	6	Idle		0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	8	104	13	7	Idle		0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	8	105	13	8	Idle		0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	8	106	13	9	Idle		0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	8	107	13	10	Idle		0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	8	108	13	11	Idle		0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	8	109	13	12	Idle		0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	8	110	13	13	Idle		0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	8	111	13	14	Idle		0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	8	37	13	15	Idle		0	0	9901	Diesel	2.8	2.59E+00	2.59E+00	1
Idle	9	98	14	1	0	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	9	99	14	2	0	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	9	100	14	3	0	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	9	101	14	4	0	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	9	102	14	5	0	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	9	103	14	6	0	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	9	104	14	7	0	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	9	105	14	8	0	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	9	106	14	9	0	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	9	107	14	10	0	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	9	108	14	11	0	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	9	109	14	12	0	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	9	110	14	13	0	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	9	111	14	14	0	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	9	37	14	15	0	0	0	0	9901	Diesel	2.8	2.59E+00	2.59E+00	1
Idle	10	98	15	1	0	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	10	99	15	2	0	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	10	100	15	3	0	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	10	101	15	4	0	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	10	102	15	5	0	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	10	103	15	6	0	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	10	104	15	7	0	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	10	105	15	8	0	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	10	106	15	9	0	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	10	107	15	10	0	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	10	108	15	11	0	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	10	109	15	12	0	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	10	110	15	13	0	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	10	111	15	14	0	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	10	37	15	15	0	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	11	98	16	1	0	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	11	99	16	2	0	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	11	100	16	3	0	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	11	101	16	4	0	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	11	102	16	5	0	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	11	103	16	6	0	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	11	104	16	7	0	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	11	105	16	8	0	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	11	106	16	9	0	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	11	107	16	10	0	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	11	108	16	11	0	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	11	109	16	12	0	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	11	110	16	13	0	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	11	111	16	14	0	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	11	37	16	15	0	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	12	98	17	1	0	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	12	99	17	2	0	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	12	100	17	3	0	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	12	101	17	4	0	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	12	102	17	5	0	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	12	103	17	6	0	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	12	104	17	7	0	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	12	105	17	8	0	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	12	106	17	9	0	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	12	107	17	10	0	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	12	108	17	11	0	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	12	109	17	12	0	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	12	110	17	13	0	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	12	111	17	14	0	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	12	37	17	15	0	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	13	98	18	1	0	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	13	99	18	2	0	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	13	100	18	3	0	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	13	101	18	4	0	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	13	102	18	5	0	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	13	103	18	6	0	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	13	104	18	7	0	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	13	105	18	8	0	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	13	106	18	9	0	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	13	107	18	10	0	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	13	108	18	11	0	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	13	109	18	12	0	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	13	110	18	13	0	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	13	111	18	14	0	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	13	37	18	15	0	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
TRU	7	98	19	1	TRU		0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
TRU	7	99	19	2	TRU		0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
TRU	7	100	19	3	TRU		0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
TRU	7	101	19	4	TRU		0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
TRU	7	102	19	5	TRU		0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
TRU	7	103	19	6	TRU		0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
TRU	7	104	19	7	TRU		0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
TRU	7	105	19	8	TRU		0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
TRU	7	106	19	9	TRU		0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
TRU	7	107	19	10	TRU		0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
TRU	7	108	19	11	TRU		0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
TRU	7	109	19	12	TRU		0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
TRU	7	110	19	13	TRU		0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
TRU	7	111	19	14	TRU		0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
TRU	7	47	19	15	TRU		0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1

	Model Source	Source Col		Dat Col		Col	Row	CAS#	Chemical Name	Pol Count	Source Count
1		0	1	8	1	8	98	75070	Acetaldehyde	15	19
2		0	2	10	2	10	99	107028	Acrolein		
3		0	3	12	3	12	100	71432	Benzene		
4		0	4	14	4	14	101	106990	1-3,Butadiene		
5		0	5	16	5	16	102	100414	Ethylbenzene		
6		0	6	18	6	18	103	50000	Formaldehyde		
7		0	7	20	7	20	104	110543	Hexane		
8		0	8	22	8	22	105	67561	Methanol		
9		0	9	24	9	24	106	78933	Methyl Ethyl Ketone		
10		0	10	26	10	26	107	91203	Naphthalene		
11		0	11	28	11	28	108	115071	Propylene		
12		0	12	30	12	30	109	100425	Styrene		
13	Idle		Idle1	8	13	8	110	108883	Toluene		
14		0	Idle1	9	14	8	111	1330207	Xylenes		
15		0	Idle1	10	15	8	112	9901	Diesel		
16		0	Idle1	11	16	8					
17		0	Idle1	12	17	8	37		Idle		
18		0	Idle1	13	18	7	47		TRU		
19	TRU		TRU	7	19						
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
46											
47											
48											

1	8	98	1	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
1	8	99	1	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
1	8	100	1	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
1	8	101	1	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
1	8	102	1	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
1	8	103	1	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
1	8	104	1	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
1	8	105	1	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
1	8	106	1	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
1	8	107	1	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
1	8	108	1	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
1	8	109	1	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
1	8	110	1	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
1	8	111	1	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
1	8	112	1	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
2	10	98	2	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
2	10	99	2	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
2	10	100	2	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
2	10	101	2	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
2	10	102	2	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
2	10	103	2	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
2	10	104	2	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
2	10	105	2	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
2	10	106	2	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
2	10	107	2	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
2	10	108	2	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
2	10	109	2	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
2	10	110	2	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
2	10	111	2	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
2	10	112	2	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
3	12	98	3	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
3	12	99	3	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
3	12	100	3	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
3	12	101	3	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
3	12	102	3	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
3	12	103	3	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
3	12	104	3	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
3	12	105	3	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
3	12	106	3	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
3	12	107	3	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
3	12	108	3	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
3	12	109	3	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
3	12	110	3	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
3	12	111	3	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
3	12	112	3	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
4	14	98	4	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
4	14	99	4	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
4	14	100	4	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
4	14	101	4	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
4	14	102	4	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
4	14	103	4	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
4	14	104	4	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
4	14	105	4	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
4	14	106	4	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
4	14	107	4	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
4	14	108	4	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
4	14	109	4	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
4	14	110	4	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
4	14	111	4	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
4	14	112	4	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
5	16	98	5	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
5	16	99	5	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
5	16	100	5	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
5	16	101	5	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
5	16	102	5	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
5	16	103	5	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
5	16	104	5	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
5	16	105	5	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
5	16	106	5	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
5	16	107	5	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
5	16	108	5	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
5	16	109	5	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
5	16	110	5	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
5	16	111	5	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
5	16	112	5	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
6	18	98	6	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
6	18	99	6	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
6	18	100	6	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
6	18	101	6	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
6	18	102	6	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
6	18	103	6	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
6	18	104	6	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
6	18	105	6	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
6	18	106	6	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
6	18	107	6	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
6	18	108	6	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
6	18	109	6	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
6	18	110	6	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
6	18	111	6	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
6	18	112	6	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
7	20	98	7	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
7	20	99	7	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
7	20	100	7	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
7	20	101	7	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
7	20	102	7	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
7	20	103	7	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
7	20	104	7	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
7	20	105	7	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
7	20	106	7	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
7	20	107	7	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
7	20	108	7	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
7	20	109	7	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
7	20	110	7	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
7	20	111	7	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
7	20	112	7	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
8	22	98	8	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
8	22	99	8	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
8	22	100	8	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
8	22	101	8	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
8	22	102	8	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
8	22	103	8	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
8	22	104	8	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
8	22	105	8	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
8	22	106	8	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
8	22	107	8	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
8	22	108	8	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
8	22	109	8	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
8	22	110	8	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
8	22	111	8	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
8	22	112	8	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
9	24	98	9	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
9	24	99	9	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
9	24	100	9	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
9	24	101	9	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
9	24	102	9	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
9	24	103	9	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
9	24	104	9	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
9	24	105	9	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
9	24	106	9	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
9	24	107	9	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
9	24	108	9	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
9	24	109	9	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
9	24	110	9	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
9	24	111	9	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
9	24	112	9	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
10	26	98	10	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
10	26	99	10	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
10	26	100	10	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
10	26	101	10	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
10	26	102	10	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
10	26	103	10	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
10	26	104	10	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
10	26	105	10	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
10	26	106	10	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
10	26	107	10	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
10	26	108	10	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1

10	26	109	10	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
10	26	110	10	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
10	26	111	10	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
10	26	112	10	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
11	28	98	11	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
11	28	99	11	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
11	28	100	11	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
11	28	101	11	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
11	28	102	11	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
11	28	103	11	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
11	28	104	11	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
11	28	105	11	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
11	28	106	11	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
11	28	107	11	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
11	28	108	11	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
11	28	109	11	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
11	28	110	11	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
11	28	111	11	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
11	28	112	11	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
12	30	98	12	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
12	30	99	12	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
12	30	100	12	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
12	30	101	12	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
12	30	102	12	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
12	30	103	12	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
12	30	104	12	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
12	30	105	12	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
12	30	106	12	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
12	30	107	12	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
12	30	108	12	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
12	30	109	12	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
12	30	110	12	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
12	30	111	12	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
12	30	112	12	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	8	98	13	1	Idle	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	8	99	13	2	Idle	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	8	100	13	3	Idle	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	8	101	13	4	Idle	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	8	102	13	5	Idle	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	8	103	13	6	Idle	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	8	104	13	7	Idle	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	8	105	13	8	Idle	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	8	106	13	9	Idle	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	8	107	13	10	Idle	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	8	108	13	11	Idle	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	8	109	13	12	Idle	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	8	110	13	13	Idle	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	8	111	13	14	Idle	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	8	37	13	15	Idle	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	9	98	14	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	9	99	14	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	9	100	14	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	9	101	14	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	9	102	14	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	9	103	14	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	9	104	14	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	9	105	14	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	9	106	14	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	9	107	14	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	9	108	14	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	9	109	14	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	9	110	14	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	9	111	14	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	9	37	14	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	10	98	15	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	10	99	15	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	10	100	15	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	10	101	15	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	10	102	15	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	10	103	15	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	10	104	15	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	10	105	15	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	10	106	15	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	10	107	15	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	10	108	15	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	10	109	15	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	10	110	15	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	10	111	15	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	10	37	15	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	11	98	16	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	11	99	16	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	11	100	16	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	11	101	16	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	11	102	16	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	11	103	16	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	11	104	16	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	11	105	16	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	11	106	16	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	11	107	16	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	11	108	16	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	11	109	16	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	11	110	16	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	11	111	16	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	11	37	16	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	12	98	17	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	12	99	17	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	12	100	17	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	12	101	17	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	12	102	17	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	12	103	17	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	12	104	17	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	12	105	17	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	12	106	17	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	12	107	17	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	12	108	17	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	12	109	17	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	12	110	17	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	12	111	17	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	12	37	17	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle	13	98	18	1	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	13	99	18	2	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle	13	100	18	3	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle	13	101	18	4	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle	13	102	18	5	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle	13	103	18	6	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle	13	104	18	7	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
Idle	13	105	18	8	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	13	106	18	9	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	13	107	18	10	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	13	108	18	11	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	13	109	18	12	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	13	110	18	13	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	13	111	18	14	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	13	37	18	15	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
TRU	7	98	19	1	TRU	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
TRU	7	99	19	2	TRU	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
TRU	7	100	19	3	TRU	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
TRU	7	101	19	4	TRU	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
TRU	7	102	19	5	TRU	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
TRU	7	103	19	6	TRU	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
TRU	7	104	19	7	TRU	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
TRU	7	105	19	8	TRU	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
TRU	7	106	19	9	TRU	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
TRU	7	107	19	10	TRU	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
TRU	7	108	19	11	TRU	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
TRU	7	109	19	12	TRU	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
TRU	7	110	19	13	TRU	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
TRU	7	111	19	14	TRU	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
TRU	7	47	19	15	TRU	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1

OS_IN	0	0	75070	Acetaldehyde	2.8	2.53E-02	8.42E-06	1
OS_IN	0	0	107028	Acrolein	2.8	1.17E-02	3.91E-06	1
OS_IN	0	0	71432	Benzene	2.8	2.55E-01	8.51E-05	1
OS_IN	0	0	106990	1-3,Butadiene	2.8	4.96E-02	1.65E-05	1
OS_IN	0	0	100414	Ethylbenzene	2.8	1.05E-01	3.51E-05	1
OS_IN	0	0	50000	Formaldehyde	2.8	1.43E-01	4.75E-05	1
OS_IN	0	0	110543	Hexane	2.8	2.83E-01	9.45E-05	1
OS_IN	0	0	67561	Methanol	2.8	1.08E-02	3.61E-06	1
OS_IN	0	0	78933	Methyl Ethyl Ketone	2.8	1.80E-03	6.02E-07	1
OS_IN	0	0	91203	Naphthalene	2.8	4.51E-03	1.50E-06	1
OS_IN	0	0	115071	Propylene	2.8	2.76E-01	9.21E-05	1
OS_IN	0	0	100425	Styrene	2.8	1.08E-02	3.61E-06	1
OS_IN	0	0	108883	Toluene	2.8	6.73E-01	2.24E-04	1
OS_IN	0	0	1330207	Xylenes	2.8	4.85E-01	1.62E-04	1
OS_IN	0	0	9901	Diesel	2.8	2.36E+01	1.96E-03	1
OS_OUT	0	0	75070	Acetaldehyde	2.8	2.53E-02	8.42E-06	1
OS_OUT	0	0	107028	Acrolein	2.8	1.17E-02	3.91E-06	1
OS_OUT	0	0	71432	Benzene	2.8	2.55E-01	8.51E-05	1
OS_OUT	0	0	106990	1-3,Butadiene	2.8	4.96E-02	1.65E-05	1
OS_OUT	0	0	100414	Ethylbenzene	2.8	1.05E-01	3.51E-05	1
OS_OUT	0	0	50000	Formaldehyde	2.8	1.43E-01	4.75E-05	1
OS_OUT	0	0	110543	Hexane	2.8	2.83E-01	9.45E-05	1
OS_OUT	0	0	67561	Methanol	2.8	1.08E-02	3.61E-06	1
OS_OUT	0	0	78933	Methyl Ethyl Ketone	2.8	1.80E-03	6.02E-07	1
OS_OUT	0	0	91203	Naphthalene	2.8	4.51E-03	1.50E-06	1
OS_OUT	0	0	115071	Propylene	2.8	2.76E-01	9.21E-05	1
OS_OUT	0	0	100425	Styrene	2.8	1.08E-02	3.61E-06	1
OS_OUT	0	0	108883	Toluene	2.8	6.73E-01	2.24E-04	1
OS_OUT	0	0	1330207	Xylenes	2.8	4.85E-01	1.62E-04	1
OS_OUT	0	0	9901	Diesel	2.8	2.10E+01	1.96E-03	1
OS_IN2	0	0	75070	Acetaldehyde	2.8	2.53E-02	8.42E-06	1
OS_IN2	0	0	107028	Acrolein	2.8	1.17E-02	3.91E-06	1
OS_IN2	0	0	71432	Benzene	2.8	2.55E-01	8.51E-05	1
OS_IN2	0	0	106990	1-3,Butadiene	2.8	4.96E-02	1.65E-05	1
OS_IN2	0	0	100414	Ethylbenzene	2.8	1.05E-01	3.51E-05	1
OS_IN2	0	0	50000	Formaldehyde	2.8	1.43E-01	4.75E-05	1
OS_IN2	0	0	110543	Hexane	2.8	2.83E-01	9.45E-05	1
OS_IN2	0	0	67561	Methanol	2.8	1.08E-02	3.61E-06	1
OS_IN2	0	0	78933	Methyl Ethyl Ketone	2.8	1.80E-03	6.02E-07	1
OS_IN2	0	0	91203	Naphthalene	2.8	4.51E-03	1.50E-06	1
OS_IN2	0	0	115071	Propylene	2.8	2.76E-01	9.21E-05	1
OS_IN2	0	0	100425	Styrene	2.8	1.08E-02	3.61E-06	1
OS_IN2	0	0	108883	Toluene	2.8	6.73E-01	2.24E-04	1
OS_IN2	0	0	1330207	Xylenes	2.8	4.85E-01	1.62E-04	1
OS_IN2	0	0	9901	Diesel	2.8	1.45E+01	1.96E-03	1
OS_OUT2	0	0	75070	Acetaldehyde	2.8	2.53E-02	8.42E-06	1

OS_OUT2	0	0	107028	Acrolein	2.8	1.17E-02	3.91E-06	1
OS_OUT2	0	0	71432	Benzene	2.8	2.55E-01	8.51E-05	1
OS_OUT2	0	0	106990	1-3,Butadiene	2.8	4.96E-02	1.65E-05	1
OS_OUT2	0	0	100414	Ethylbenzene	2.8	1.05E-01	3.51E-05	1
OS_OUT2	0	0	50000	Formaldehyde	2.8	1.43E-01	4.75E-05	1
OS_OUT2	0	0	110543	Hexane	2.8	2.83E-01	9.45E-05	1
OS_OUT2	0	0	67561	Methanol	2.8	1.08E-02	3.61E-06	1
OS_OUT2	0	0	78933	Methyl Ethyl Ketone	2.8	1.80E-03	6.02E-07	1
OS_OUT2	0	0	91203	Naphthalene	2.8	4.51E-03	1.50E-06	1
OS_OUT2	0	0	115071	Propylene	2.8	2.76E-01	9.21E-05	1
OS_OUT2	0	0	100425	Styrene	2.8	1.08E-02	3.61E-06	1
OS_OUT2	0	0	108883	Toluene	2.8	6.73E-01	2.24E-04	1
OS_OUT2	0	0	1330207	Xylenes	2.8	4.85E-01	1.62E-04	1
OS_OUT2	0	0	9901	Diesel	2.8	1.17E+01	9.78E-04	1
0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
NIN	0	0	75070	Acetaldehyde	2.8	3.16E-03	1.05E-06	1
NIN	0	0	107028	Acrolein	2.8	1.47E-03	4.89E-07	1
NIN	0	0	71432	Benzene	2.8	3.19E-02	1.06E-05	1

NIN	0	0	106990	1-3,Butadiene	2.8	6.20E-03	2.07E-06	1
NIN	0	0	100414	Ethylbenzene	2.8	1.32E-02	4.39E-06	1
NIN	0	0	50000	Formaldehyde	2.8	1.78E-02	5.94E-06	1
NIN	0	0	110543	Hexane	2.8	3.54E-02	1.18E-05	1
NIN	0	0	67561	Methanol	2.8	1.35E-03	4.51E-07	1
NIN	0	0	78933	Methyl Ethyl Ketone	2.8	2.26E-04	7.52E-08	1
NIN	0	0	91203	Naphthalene	2.8	5.64E-04	1.88E-07	1
NIN	0	0	115071	Propylene	2.8	3.45E-02	1.15E-05	1
NIN	0	0	100425	Styrene	2.8	1.35E-03	4.51E-07	1
NIN	0	0	108883	Toluene	2.8	8.42E-02	2.81E-05	1
NIN	0	0	1330207	Xylenes	2.8	6.07E-02	2.02E-05	1
NIN	0	0	9901	Diesel	2.8	4.18E+00	2.45E-04	1
SIN	0	0	75070	Acetaldehyde	2.8	3.16E-03	1.05E-06	1
SIN	0	0	107028	Acrolein	2.8	1.47E-03	4.89E-07	1
SIN	0	0	71432	Benzene	2.8	3.19E-02	1.06E-05	1
SIN	0	0	106990	1-3,Butadiene	2.8	6.20E-03	2.07E-06	1
SIN	0	0	100414	Ethylbenzene	2.8	1.32E-02	4.39E-06	1
SIN	0	0	50000	Formaldehyde	2.8	1.78E-02	5.94E-06	1
SIN	0	0	110543	Hexane	2.8	3.54E-02	1.18E-05	1
SIN	0	0	67561	Methanol	2.8	1.35E-03	4.51E-07	1
SIN	0	0	78933	Methyl Ethyl Ketone	2.8	2.26E-04	7.52E-08	1
SIN	0	0	91203	Naphthalene	2.8	5.64E-04	1.88E-07	1
SIN	0	0	115071	Propylene	2.8	3.45E-02	1.15E-05	1
SIN	0	0	100425	Styrene	2.8	1.35E-03	4.51E-07	1
SIN	0	0	108883	Toluene	2.8	8.42E-02	2.81E-05	1
SIN	0	0	1330207	Xylenes	2.8	6.07E-02	2.02E-05	1
SIN	0	0	9901	Diesel	2.8	8.70E+00	2.45E-04	1
NOUT	0	0	75070	Acetaldehyde	2.8	3.16E-03	1.05E-06	1
NOUT	0	0	107028	Acrolein	2.8	1.47E-03	4.89E-07	1
NOUT	0	0	71432	Benzene	2.8	3.19E-02	1.06E-05	1
NOUT	0	0	106990	1-3,Butadiene	2.8	6.20E-03	2.07E-06	1
NOUT	0	0	100414	Ethylbenzene	2.8	1.32E-02	4.39E-06	1
NOUT	0	0	50000	Formaldehyde	2.8	1.78E-02	5.94E-06	1
NOUT	0	0	110543	Hexane	2.8	3.54E-02	1.18E-05	1
NOUT	0	0	67561	Methanol	2.8	1.35E-03	4.51E-07	1
NOUT	0	0	78933	Methyl Ethyl Ketone	2.8	2.26E-04	7.52E-08	1
NOUT	0	0	91203	Naphthalene	2.8	5.64E-04	1.88E-07	1
NOUT	0	0	115071	Propylene	2.8	3.45E-02	1.15E-05	1
NOUT	0	0	100425	Styrene	2.8	1.35E-03	4.51E-07	1
NOUT	0	0	108883	Toluene	2.8	8.42E-02	2.81E-05	1
NOUT	0	0	1330207	Xylenes	2.8	6.07E-02	2.02E-05	1
NOUT	0	0	9901	Diesel	2.8	4.32E+00	2.45E-04	1
SOUT	0	0	75070	Acetaldehyde	2.8	3.16E-03	1.05E-06	1
SOUT	0	0	107028	Acrolein	2.8	1.47E-03	4.89E-07	1
SOUT	0	0	71432	Benzene	2.8	3.19E-02	1.06E-05	1
SOUT	0	0	106990	1-3,Butadiene	2.8	6.20E-03	2.07E-06	1
SOUT	0	0	100414	Ethylbenzene	2.8	1.32E-02	4.39E-06	1

SOUT		0	0	50000	Formaldehyde	2.8	1.78E-02	5.94E-06	1
SOUT		0	0	110543	Hexane	2.8	3.54E-02	1.18E-05	1
SOUT		0	0	67561	Methanol	2.8	1.35E-03	4.51E-07	1
SOUT		0	0	78933	Methyl Ethyl Ketone	2.8	2.26E-04	7.52E-08	1
SOUT		0	0	91203	Naphthalene	2.8	5.64E-04	1.88E-07	1
SOUT		0	0	115071	Propylene	2.8	3.45E-02	1.15E-05	1
SOUT		0	0	100425	Styrene	2.8	1.35E-03	4.51E-07	1
SOUT		0	0	108883	Toluene	2.8	8.42E-02	2.81E-05	1
SOUT		0	0	1330207	Xylenes	2.8	6.07E-02	2.02E-05	1
SOUT		0	0	9901	Diesel	2.8	8.57E+00	2.45E-04	1
	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
Idle		0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
Idle		0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
Idle		0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
Idle		0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
Idle		0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
Idle		0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
Idle		0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1

Idle	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
Idle	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
Idle	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
Idle	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
Idle	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
Idle	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
Idle	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
Idle	0	0	9901	Diesel	2.8	2.59E+00	2.59E+00	1
0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
0	0	0	9901	Diesel	2.8	2.59E+00	2.59E+00	1
0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1

	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
	0	0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1
TRU		0	0	75070	Acetaldehyde	2.8	0.00E+00	0.00E+00	1
TRU		0	0	107028	Acrolein	2.8	0.00E+00	0.00E+00	1
TRU		0	0	71432	Benzene	2.8	0.00E+00	0.00E+00	1
TRU		0	0	106990	1-3,Butadiene	2.8	0.00E+00	0.00E+00	1
TRU		0	0	100414	Ethylbenzene	2.8	0.00E+00	0.00E+00	1
TRU		0	0	50000	Formaldehyde	2.8	0.00E+00	0.00E+00	1
TRU		0	0	110543	Hexane	2.8	0.00E+00	0.00E+00	1
TRU		0	0	67561	Methanol	2.8	0.00E+00	0.00E+00	1
TRU		0	0	78933	Methyl Ethyl Ketone	2.8	0.00E+00	0.00E+00	1
TRU		0	0	91203	Naphthalene	2.8	0.00E+00	0.00E+00	1
TRU		0	0	115071	Propylene	2.8	0.00E+00	0.00E+00	1

TRU	0	0	100425	Styrene	2.8	0.00E+00	0.00E+00	1
TRU	0	0	108883	Toluene	2.8	0.00E+00	0.00E+00	1
TRU	0	0	1330207	Xylenes	2.8	0.00E+00	0.00E+00	1
TRU	0	0	9901	Diesel	2.8	0.00E+00	0.00E+00	1

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	PM2.5_RUNEX	PM10_RUNEX
Orange	2024	HHDT	Aggregate	5	Diesel	0.015019228	0.015698331
Orange	2024	HHDT	Aggregate	10	Diesel	0.012595071	0.013164564
Orange	2024	HHDT	Aggregate	15	Diesel	0.010212919	0.010674701
					Average	0.012609073	0.013179199
Orange	2024	LDT1	Aggregate	5	Diesel	0.975384395	1.019486949
Orange	2024	LDT1	Aggregate	10	Diesel	0.679045728	0.709749163
Orange	2024	LDT1	Aggregate	15	Diesel	0.494692363	0.517060157
Orange	2024	LDT2	Aggregate	5	Diesel	0.011942297	0.012482275
Orange	2024	LDT2	Aggregate	10	Diesel	0.010415475	0.010886416
Orange	2024	LDT2	Aggregate	15	Diesel	0.008751748	0.009147464
					Average	0.363372001	0.379802071
Orange	2024	MHDT	Aggregate	5	Diesel	0.031208209	0.032619305
Orange	2024	MHDT	Aggregate	10	Diesel	0.025484744	0.026637051
Orange	2024	MHDT	Aggregate	15	Diesel	0.016469953	0.017214651
					Average	0.024387635	0.025490336

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: Orange
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VM	CVMT	EVMT	NOx_RUNEX	PM2.5_RUNEX	PM10_RUNEX	CO2_RUNEX	CH4_RUNEX	N2O_RUNEX	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	SOx_RUNEX	NH3_RUNE	PM10_PME	PM2.5_PM	Fuel Consu	Energy Consumption
Orange	2024	HHDT	Aggregate	5	Diesel	42.25	42.253762	0	10.91757442	0.015019228	0.015698331	3284.693077	0.006303314	0.517504732	0.135708625	0.154493939	1.16325764	0.031104079	0.213611	0.139117	0.048691	0.32344	0
Orange	2024	HHDT	Aggregate	10	Diesel	2431	2431.005491	0	7.952475115	0.012595071	0.013164564	2802.075859	0.003812115	0.441468193	0.0820738	0.093434773	0.740423512	0.026533983	0.21447	0.1388	0.04858	0.275918	0
Orange	2024	HHDT	Aggregate	15	Diesel	4498	4498.229699	0	5.413691861	0.010212919	0.010674701	2333.821941	0.001984239	0.367694597	0.042720122	0.048633607	0.403952764	0.022099898	0.21238	0.137759	0.048216	0.229809	0
Orange	2024	LDA	Aggregate	5	Diesel	16.75	16.7536817	0	0.225413482	0.051944546	0.054293248	593.1366508	0.012456455	0.093448921	0.268180143	0.305305264	4.434113933	0.005620271	0.0031	0.00605	0.002118	0.058406	0
Orange	2024	LDA	Aggregate	10	Diesel	499	498.9976246	0	0.207010362	0.038236455	0.039965338	494.138817	0.009175145	0.077851772	0.197535474	0.224881004	3.306821605	0.004682216	0.0031	0.007482	0.002619	0.048657	0
Orange	2024	LDA	Aggregate	15	Diesel	900.2	900.1605763	0	0.174884164	0.029004192	0.030315633	406.4277709	0.004957181	0.064032861	0.106725186	0.121499528	1.674917124	0.00385111	0.0031	0.008906	0.003117	0.040021	0
Orange	2024	LDT1	Aggregate	5	Diesel	0.082	0.082309475	0	1.080613507	0.975384395	1.019486949	1048.427372	0.05690266	0.165180159	1.225080769	1.394673007	4.78755522	0.009934382	0.0031	0.009719	0.003402	0.103238	0
Orange	2024	LDT1	Aggregate	10	Diesel	2.452	2.451534737	0	1.134872782	0.679045728	0.709749163	882.5310668	0.039626859	0.139043129	0.853142942	0.971246518	3.402159934	0.00836243	0.0031	0.012092	0.004232	0.086902	0
Orange	2024	LDT1	Aggregate	15	Diesel	4.422	4.422415684	0	1.192611471	0.494692363	0.517060157	731.763703	0.02881713	0.115289669	0.620415846	0.706302193	2.535578249	0.006933833	0.0031	0.014477	0.005067	0.072056	0
Orange	2024	LDT2	Aggregate	5	Diesel	14.79	14.79391169	0	0.157521089	0.011942297	0.012482275	778.4710481	0.012310415	0.122648431	0.265035988	0.301725852	2.638256309	0.007376409	0.0031	0.008098	0.002834	0.076655	0
Orange	2024	LDT2	Aggregate	10	Diesel	440.6	440.6271365	0	0.132473759	0.010415475	0.010886416	655.2908699	0.009204581	0.103241343	0.19816922	0.225602482	1.974061168	0.006209214	0.0031	0.010075	0.003526	0.064526	0
Orange	2024	LDT2	Aggregate	15	Diesel	794.9	794.8638582	0	0.091911966	0.008751748	0.009147464	543.3441286	0.004529211	0.085604089	0.097511243	0.111010067	0.968323679	0.005148462	0.0031	0.012062	0.004222	0.053503	0
Orange	2024	LHDT1	Aggregate	5	Diesel	42.36	42.3636054	0	1.73073739	0.071700974	0.074942974	1172.472455	0.015605208	0.184723513	0.335970931	0.382480568	1.044870015	0.011109772	0.181225	0.078	0.0273	0.115452	0
Orange	2024	LHDT1	Aggregate	10	Diesel	2198	2198.01993	0	1.583065522	0.059091029	0.061762863	1018.343047	0.013007408	0.160440362	0.28004184	0.318809017	0.839737919	0.009649318	0.181225	0.078	0.0273	0.100275	0
Orange	2024	LHDT1	Aggregate	15	Diesel	3330	3329.852818	0	1.456493196	0.048925698	0.051137901	867.0508094	0.010942901	0.136604208	0.235594223	0.268208359	0.677499868	0.008215747	0.181225	0.078	0.0273	0.085378	0
Orange	2024	LHDT2	Aggregate	5	Diesel	17.99	17.98662519	0	1.595954702	0.065432078	0.068390626	1382.677752	0.014247678	0.217841443	0.306744129	0.349207797	0.937108167	0.013101574	0.189629	0.091	0.03185	0.136151	0
Orange	2024	LHDT2	Aggregate	10	Diesel	933.2	933.2293668	0	1.432282128	0.054404186	0.056864102	1205.516471	0.012093149	0.189929611	0.260358388	0.296400715	0.762056123	0.011422881	0.189629	0.091	0.03185	0.118706	0
Orange	2024	LHDT2	Aggregate	15	Diesel	1414	1413.779918	0	1.290574943	0.04537098	0.047422454	1034.85181	0.010325833	0.163041324	0.222309102	0.253084132	0.619063676	0.009805747	0.189629	0.091	0.03185	0.101901	0
Orange	2024	MHDT	Aggregate	5	Diesel	698.1	698.1373472	0	3.171767012	0.031208209	0.032619305	2419.031911	0.008136468	0.381119463	0.175175935	0.199424468	0.460485916	0.022906786	0.215913	0.061496	0.021524	0.2382	0
Orange	2024	MHDT	Aggregate	10	Diesel	4900	4900.246834	0	2.395128665	0.025484744	0.026637051	2001.65685	0.005502476	0.315361852	0.118466804	0.134865439	0.323610476	0.018954493	0.215976	0.061496	0.021524	0.197101	0
Orange	2024	MHDT	Aggregate	15	Diesel	9494	9494.246431	0	1.66552519	0.016469953	0.017214651	1573.872479	0.002740137	0.24796425	0.0589944	0.067160634	0.203713018	0.014903631	0.215886	0.061496	0.021524	0.154978	0

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	Diesel %	Trips	PM2.5_RUNEX	PM10_RUNEX	TOG_RUNEX	TOG_RUNLOSS
Orange	2024	LDA	Aggregate	Aggregate	Gasoline	1065891.765	42285386.13	42285386.13	0%	4977599.192	0.001238971	0.001347494	0.012635149	0.216703034
Orange	2024	LDA	Aggregate	Aggregate	Diesel	3266.416655	98494.14462	98494.14462	53%	13787.61952	0.014560462	0.015218821	0.029648695	0
							42383880.27	63.0%						
Orange	2024	LDT1	Aggregate	Aggregate	Gasoline	97776.1357	3495530.367	3495530.367	0%	434581.8932	0.001857228	0.002019869	0.043880452	0.50051606
Orange	2024	LDT1	Aggregate	Aggregate	Diesel	31.55516109	483.8937201	483.8937201	0.3%	89.92548515	0.241473199	0.252391545	0.343893248	0
Orange	2024	LDT2	Aggregate	Aggregate	Gasoline	523220.8345	21321177.46	21321177.46	0%	2459651.448	0.001279625	0.001391706	0.016130753	0.205116725
Orange	2024	LDT2	Aggregate	Aggregate	Diesel	2063.415332	86972.74449	86972.74449	47%	9872.064019	0.004680094	0.004891707	0.016809854	0
							24904164.46	37.0%	185951			Gasoline Avg EF	0.024215451	0.307445273
								Diesel Wt EF	0.011005819					

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM10_RUNEX	PM10_IDLEX
Orange	2024	HHDT	Aggregate	Aggregate	Diesel	11093.50859	1265161.083	1265161.083	156385.1844	0.023976022	0.031373962	0.025060112	0.032792553
Orange	2024	MHDT	Aggregate	Aggregate	Diesel	27477.47253	1155908.692	1155908.692	346710.1335	0.009152304	0.017399215	0.00956613	0.01818593
Orange	2024	LHDT1	Aggregate	Aggregate	Diesel	21602.56979	922158.8233	922158.8233	271733.1519	0.020207054	0.026412991	0.021120727	0.027607269
Orange	2024	LHDT2	Aggregate	Aggregate	Diesel	9173.234432	391527.7031	391527.7031	115387.7492	0.018846093	0.026647053	0.01969823	0.027851915
									Average	0.019526574	0.026530022	0.020409479	0.027729592

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: Orange
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_DIURN	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_DIURN	NH3_RUNEX	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
Orange	2024	HHDT	Aggregate	Aggregate	Gasoline	7.623182	590.1042	590.1042	0	152.5272	5.763845601	0	0.740892226	0.081195498	0	0.001185537	0.005500001	0.030782033	0.001517932	0	0.012904667	0.020000006	0.087740981	2032.399636	0	54.78400608	0.14340218	0	0.000157452	0.178934485	0	0.017846052	0.78351097	0	0.000816676	0.079888654	0.669102057	6.009496517	0.864249449	35.9069334	0	5.134558626	0.03009234	0	0.000581596
Orange	2024	HHDT	Aggregate	Aggregate	Diesel	1109.551	1265.161	1265.161	0	1563852.1	1.829833054	56.90882638	2.850923405	0.032936022	0.081375962	0	0.008668364	0.026838796	0.025068212	0.032792553	0	0.034730509	0.076599585	1601.022015	1083.94596	0	0.006441324	0.212138786	0	0.252241491	1.706934985	0	0.013807528	4.572521628	0	0	0	0	0	0.183718819	5.205467801	0	0	0	0	0.214395406	0.070535361	66.36955967	0	0.013160721	0.012583137	0
Orange	2024	LDA	Aggregate	Aggregate	Diesel	1065852	42285386	42285386	0	4977589	0.019075093	0	0.2382467	0.001288971	0	0.003923332	0.002000001	0.002873372	0.001343694	0	0.032091786	0.003800002	0.008326778	278.4961516	0	68.92816327	0.002153746	0	0.006093123	0.004938237	0	0.03118005	0.00865897	0	0.29661838	0.087784248	0.267703034	1.414139581	0.035200936	0.730608892	0	2.883732351	0.007525625	0	0.000814333
Orange	2024	LDA	Aggregate	Aggregate	Diesel	3266.417	99804.14	99804.14	0	13787452	0.153905238	0	0	0.014906462	0	0	0.002000001	0.002029462	0.015218881	0	0	0.008000002	0.008361377	237.3949493	0	0	0.020120667	0	0	0.037402887	0	0	0.026083414	0	0	0	0	0	0	0.028648695	0	0	0	0	0.0331	0.533080468	0	0	0.002494681	0	0
Orange	2024	LDT1	Aggregate	Aggregate	Gasoline	9777.614	3495530	3495530	0	43458119	0.119850191	0	0.382391489	0.001859228	0	0.00275628	0.002000001	0.003440909	0.002019869	0	0.029976937	0.008000002	0.009684881	331.3707808	0	85.89381484	0.006842265	0	0.00334263	0.009568855	0	0.038585875	0.030074848	0	0.527838415	0.17747832	0.500516006	2.965496929	0.048880452	0	0.57767527	0.17747832	0.30051606	2.965496929	0.036616694	1.600893825	0	0.005116694	0.003775938	0	0.000889148
Orange	2024	LDT1	Aggregate	Aggregate	Diesel	31.55581	488.8937	483.8937	0	89.92549	1.552358366	0	0	0.241473199	0	0	0.002000001	0.001998411	0.252395545	0	0	0.008000002	0.011341173	425.4927889	0	0	0.014018945	0	0	0.067036842	0	0	0.302075829	0	0	0	0	0	0	0.348893248	0	0	0	0	0.0931	1.722103824	0	0	0.0900176	0	0
Orange	2024	LDT2	Aggregate	Aggregate	Gasoline	5232203.8	21321177	21321177	0	2459851	0.060805046	0	0.303884023	0.001279625	0	0.001977746	0.002000001	0.0038189	0.001391706	0	0.023085719	0.008000002	0.009468257	342.3525399	0	85.88259947	0.003955379	0	0.056656051	0.005532795	0	0.035571364	0.013054788	0	0.346851641	0.079965952	0.285116725	1.352591162	0.036130753	0	0.376539874	0.079965952	0.285116725	1.352591162	0.036511165	0.835319846	0	3.284623965	0.00338391	0	0.000849037
Orange	2024	LDT2	Aggregate	Aggregate	Diesel	3063.415	86973.74	86973.74	0	9871364	0.159676661	0	0	0.004682094	0	0	0.002000001	0.003187278	0.004891707	0	0	0.008000002	0.009448366	315.9539656	0	0	0.020685842	0	0	0.049773525	0	0	0.014956776	0	0	0	0	0	0	0.018928854	0	0	0	0	0.0331	0.614574621	0	0	0.003959635	0	0
Orange	2024	LHDT1	Aggregate	Aggregate	Gasoline	41326.42	1661882	1661882	0	6157021.1	0.129062932	0.036121346	0.614385255	0.000991998	0	0.000360075	0.002000001	0.027300008	0.001078888	0	0.000282855	0.008000002	0.078000022	599.8113974	118.7717882	26.02855574	0.003891634	0.011658343	0.031612869	0.007645746	0.008119957	0.051512762	0.018897762	0.414089532	0.150690948	0.043804667	0.227973344	0.529483027	0.064924019	0.845588006	3.768102136	0.024901782	0.009301412	0.001174381	0.000357319
Orange	2024	LHDT1	Aggregate	Aggregate	Diesel	2160257	92158.8	92158.8	0	2717353.2	1.194652931	1.880538318	0	0.020207054	0.081412991	0	0.003300001	0.027300008	0.022120727	0.027607269	0	0.013000003	0.078000022	487.1940562	160.32404	0	0.004112548	0.005598128	0	0.076175822	0.028532606	0	0.08881756	0.109759705	0	0	0	0	0	0.113122888	0.124954127	0	0	0	0	0.181225076	0.24158897	0.909765076	0	0.006616411	0.001154887	0
Orange	2024	LHDT2	Aggregate	Aggregate	Gasoline	6721.103	253091.6	253091.6	0	1003134.4	0.128152423	0.036556681	0.617781339	0.003875177	0	0.000206831	0.002000001	0.011830009	0.00095227	0	0.000224947	0.008000002	0.009100081	686.9419624	138.3159832	25.37765008	0.002587093	0.111718106	0.013988509	0.008190817	0.008558343	0.050890406	0.013685579	0.419561418	0.152884485	0.042861299	0.217736219	0.523355229	0.864921142	0.639599156	3.787809325	2.955784895	0.009297166	0.001367418	0.000350864
Orange	2024	LHDT2	Aggregate	Aggregate	Diesel	9173.234	391527.7	391527.7	0	1153877	0.963831606	1.831323851	0	0.018866093	0.036647053	0	0.003500001	0.031830009	0.01969823	0.027851915	0	0.011000003	0.091000026	576.9696527	208.268858	0	0.020848468	0.005098128	0	0.090898653	0.032812843	0	0.083855258	0.109759705	0	0	0	0	0	0.106325203	0.124954127	0	0	0	0	0.189628923	0.198343047	0.909765076	0	0.009668891	0.001973458	0
Orange	2024	MHDT	Aggregate	Aggregate	Gasoline	7429.609	307716.4	307716.4	0	1486514	0.194061121	0.089779781	0.373078329	0.00087275	0	0.000407913	0.001000001	0.011928921	0.000899737	0	0.00443642	0.013000003	0.042888365	1639.065151	541.2713108	44.03705392	0.026647289	0.271232103	0.060545151	0.014258074	0.082592354	0.032328691	0.019710171	1.010628604	0.207801177	0.023814519	0.159126369	1.830361757	0.864991942	0.755706648	14.44506227	4.340618388	0.018203183	0.005351038	0.000485351
Orange	2024	MHDT	Aggregate	Aggregate	Diesel	27477.47	1155909	1155909	0	3467011	0.739506887	11.43524379	1.652602601	0.009353304	0.017399215	0	0.003000001	0.015062548	0.00956613	0.01818593	0	0.012000003	0.042978708	1084.288276	216.0164335	0	0.000676457	0.000896257	0	0.017083059	0.340791673	0	0.014520872	0.213020681	0	0	0	0	0	0.016530907	0.024250773	0	0	0	0	0.215323636	0.060554735	7.387861524	0	0.011057562	0.020483785	0

B-3

ENERGY CALCULATIONS

This page intentionally left blank

Proposed Project Operational Equipment Fuel Consumption

Equipment	Quantity	Hours Per Day	Days Per Year	Horsepower	Load Factor	Diesel Consumption (gallons/year)
Off-Road Equipment						
Track-Type Tractor	4	10	307	460	0.37	141,917.4
Track-Type Tractor	1	10	307	251	0.37	19,359.4
Track-Type Tractor	1	10	307	110	0.37	8,484.2
Wheel Dozer w/BG	2	10	307	354	0.4	59,035.0
Compactor	2	10	307	582	0.43	104,336.8
Scraper Front	3	10	307	500	0.48	150,088.9
Scraper Rear	3	10	307	283	0.48	84,950.3
Motor Grader	1	10	307	253	0.41	21,623.2
Backhoe Loader	1	5	307	115.3	0.37	4,446.5
Integrated Tool Carrier	1	5	307	180	0.42	7,879.7
Skidsteer Loader	1	5	307	69	0.37	2,661.0
Wheel Loader	1	10	307	182.2	0.36	13,673.1
Wheel Loader	1	10	307	300	0.36	22,513.3
Water Truck	3	10	307	370	0.38	87,927.1
Telehandler	1	5	307	73.7	0.42	3,226.3
Automatic Tarping Machine	2	5	307	50	0.4	4,169.1
Total Off-Road Equipment						**736,291.2**

Proposed Project Operational Vehicle Trips			
Vehicle Class	CalEEMod	Total Project Trips	Total Trips per Vehicle Class
LDA	50.00%	70	35.0
LDT1	25.00%	70	17.5
LDT2	25.00%	70	17.5

Proposed Project Operational Truck Trips			
Vehicle Class	CalEEMod	Total Project Trips	Total Trips per Vehicle Class
HHDT	100.00%	2,971	2,971.0

Proposed Project Operational Trips – Fuel Efficiency					
		EMFAC2021 Outputs1			
Fuel	Vehicle Class	Fleet Mix (%)2	Consumption (1,000 gallons/day)	VMT (miles/day)	Fuel Efficiency3 (miles/gallon)
Gas	LDA	63%	1408.4	42,285,386.1	30.0
	LDT1	5%	139.0	3,495,530.4	25.2
	LDT2	32%	872.9	21,321,177.5	24.4
	HHDT	100%	202.3	1,220,548.3	6.0

Notes:

[1] EMFAC2021 was run for Orange County for the year 2024. Data was aggregated over all vehicle model years and speed bins.

[2] Fleet mix is based on assumptions made in CalEEMod for the proposed project.

[3] The fuel efficiency was calculated by dividing the VMT (miles/day) by the fuel consumption (gallons/day).

Proposed Project Operational Trips – Fuel Usage						
Land Use	Total Annual VMT2 (miles/year)	Vehicle Class/Fuel Type	Portion of Fleet3 (%)	VMT by Fuel Type (miles/year)	Fleet Mix Efficiency4 (miles/gallon)	Fuel Usage (gallons/ year)
Other Asphalt Surfaces	316,746.00	LDA/Gas	50%	158,373.0	30.0	5,279.1
		LDT1/Gas	25%	79,186.5	25.2	3,142.3
		LDT2/Gas	25%	79,186.5	24.4	3,245.3
	37,187,451.00	Diesel	100%	37,187,451.0	6.0	6,197,908.5
					Total Gasoline/year	**11,666.8**
					Total Diesel/year	**6,197,908.5**

Notes:

[1] Calculated for year 2024 only. Future years will likely use less fuel due to more efficient cars.

[2] Total VMT is based on project's trip generation and trip lengths.

[3] Fleet distribution is based on EMFAC2021 output and CalEEMod assumptions.

[4] Fuel efficiency is based on fuel consumption and VMT data from EMFAC2021 for Orange County and total VMT.