

As of December 31, 2024

Table (i). Emission Summary Table ¹

Contaminants with POI Limits on ACB List

Contaminant Name	CAS No.	Averaging Period (hours)	Total Facility Emission Rate (g/s)	Air Dispersion Model Used	Maximum POI Concentration (µg/m ³)	MECP POI Limit (µg/m ³)	Limiting Effect	Source	Category	Percentage of MECP POI Limit
Total suspended particulate	N/A - TSP	24 hour	3.75E-02	AERMOD [v.22112]	7.41	120	Visibility	Standard	B1	6.2%
Nitrogen oxide	10102-44-0	1-hour	1.30E-01	AERMOD [v.22112]	38.47	400	Health	Standard	B1	9.6%
		24-hour		AERMOD [v.22112]	21.70	200	Health	Standard	B1	10.8%
Maleic anhydride	108-31-6	24 hour	8.13E-03	AERMOD [v.22112]	5.62	30	Health	Guideline	B1	18.7%
Magnesium stearate	557-04-0	24 hour	1.49E-02	AERMOD [v.22112]	3.07	35	Health	Guideline	B1	8.8%
Sodium carbonate	497-19-8	24 hour	1.99E-02	AERMOD [v.22112]	4.21	15	Corrosion	SL-JSL	B2	28.1%
Magnesium hydroxide	1309-42-8	24 hour	1.82E-02	AERMOD [v.22112]	3.88	20	Health	SL-JSL	B2	19.4%
Zinc oxide	1314-13-2	24 hour	3.31E-02	AERMOD [v.22112]	7.26	10	Health	SL-JSL	B2	72.6%

Contaminants with Approved Site-Specific Maximum Ground Level Concentrations

Contaminant Name	CAS	Averaging Period (hours)	Total Facility Emission Rate (g/s)	Air Dispersion Model Used [Version]	Maximum POI Concentration (µg/m ³)	Site Specific GLC (µg/m ³)	Percentage of Site Specific GLC
2,5-Dimethyl-2,5Di(T-butylperoxy) hexane	78-63-7	24 hour	8.69E-02	AERMOD [v.22112]	52.29	92.19	56.7%
Total hydrocarbon	N/A - THC	24 hour	2.26E-02	AERMOD [v.22112]	12.23	19.37	63.1%

Notes

- The POI concentrations presented in the Emission Summary Table are the maximum POI concentration from modelling conducted with AERMOD and with ASHRAE Chapter 46 (for same-structure contamination assessment).