

Emission Summary Table

Contaminant Name	CAS#	Total Facility Maximum Emission Rate (g/s)	Air Dispersion Model Used	Max. POI Concentration ($\mu\text{g}/\text{m}^3$)	Averaging Period	Ministry POI Limit ($\mu\text{g}/\text{m}^3$)	Limiting Effect	Regulation Schedule # or Alternate ¹	Maximum % of POI Limit
Graphite (natural)	7782-42-5	3.09E-03	AERMOD (14134)	5.73E-01	24 h	4.8	Health	JSL	11.9%
Manganese	7439-96-5	6.91E-04	AERMOD (14134)	1.28E-01	24 h	0.4	Health	Schedule 3	32.0%
Nickel	7440-02-0	1.03E-03	AERMOD (14134)	1.30E-02	Annual	0.45	Health	Schedule 3	2.9%
Chromium	7440-47-3	1.11E-03	AERMOD (14134)	2.06E-01	24 h	1.5	-	Guidelines	13.7%
Chromium (VI)	18540-29-9	1.03E-03	AERMOD (14134)	1.90E-04	Annual	0.04	Health	Schedule 3	0.5%
Ferric Oxide	1309-37-1	4.97E-03	AERMOD (14134)	9.20E-01	24 h	25	-	Schedule 3	3.7%
Silica Gel	7631-86-9	4.52E-03	AERMOD (14134)	5.18E-01	24 h	3	-	JSL	17.3%
Tungsten	7440-33-7	3.38E-03	AERMOD (14134)	6.25E-01	24 h	20	-	JSL	3.1%
Limestone	1317-65-3	5.21E-03	AERMOD (14134)	6.45E-01	24 h	24	Particulate	JSL	2.7%
Zinc	7440-66-6	6.88E-02	AERMOD (14134)	7.26E+00	24 h	120	Visibility	Schedule 3	6.1%
Suspended Particulate Matter	n/a	3.18E-01	AERMOD (14134)	1.78E+01	24 h	120	Particulate	Schedule 3	14.9%
Titanium Dioxide	13463-67-7	1.81E-02	AERMOD (14134)	1.95E+00	24 h	34	-	MOECC Guidelines	5.7%
Ethyl benzene	100-41-4	5.32E-01	AERMOD (14134)	5.61E+01	24 h	1000	Health	Schedule 3	5.6%
Ethylene diamine	107-15-3	3.95E-02	AERMOD (14134)	4.17E+00	24 h	60	Odour	JSL	7.0%
Toluene	108-88-3	8.51E-01	AERMOD (14134)	8.98E+01	24 h	2000	Health	MOECC Guidelines	4.5%
Xylene	1330-20-7	1.60E+00	AERMOD (14134)	1.68E+02	24 h	730	-	Schedule 3	23.1%
Kaolin	1332-58-7	2.20E-03	AERMOD (14134)	2.32E-01	24 h	8	-	JSL	2.9%
Wollastonite (Ca(SiO ₃))	13983-17-0	2.34E-02	AERMOD (14134)	2.47E+00	24 h	20	-	JSL	12.3%
Talc	14807-96-6	1.28E-02	AERMOD (14134)	1.36E+00	24 h	2	Health	MOECC Guidelines	67.8%
Quartz	14808-60-7	1.14E-03	AERMOD (14134)	1.62E-01	24 h	5	Health	MOECC Guidelines	3.2%
Hexamethylene diisocyanate homopolymer	28182-81-2	2.04E-02	AERMOD (14134)	2.15E+00	24 h	3	-	Schedule 3	71.8%
p-Chloro-a,a,a-trifluorotoluene	98-56-6	1.03E-01	AERMOD (14134)	1.09E+01	24 h	70	-	JSL	15.5%
Graphite (synthetic)	7440-44-0	6.19E-03	AERMOD (14134)	5.73E-01	24 h	0.971	-	Site Specific GLC	59.0%
Zinc oxide	1314-13-2	1.83E-02	AERMOD (14134)	9.68E-01	24 h	2.17	-	Site Specific GLC	44.6%
Hematite	1317-60-8	3.14E-03	AERMOD (14134)	1.66E-01	24 h	3.45	-	Site Specific GLC	4.8%
Aluminum hydroxide	21645-51-2	5.34E-01	AERMOD (14134)	2.82E+01	24 h	63	-	Site Specific GLC	44.7%
Polymer of epoxy resin and bisphenol A	25036-25-3	1.56E+00	AERMOD (14134)	8.23E+01	24 h	184	-	Site Specific GLC	44.7%
Bisphenol A - Epichlorohydrin	25068-38-6	2.09E-01	AERMOD (14134)	1.10E+01	24 h	230	-	Site Specific GLC	4.8%
Nepheline syenite	37244-96-5	2.09E-01	AERMOD (14134)	1.10E+01	24 h	230	-	Site Specific GLC	4.8%
FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS WITH TA	68082-29-1	3.67E-01	AERMOD (14134)	1.94E+01	24 h	43.3	-	Site Specific GLC	44.7%
Alkylated polyamine adduct	68413-28-5	8.07E-01	AERMOD (14134)	4.26E+01	24 h	95.3	-	Site Specific GLC	44.7%
Barium sulfate	7727-43-7	9.58E-02	AERMOD (14134)	1.01E+01	24 h	211	-	Site Specific GLC	4.8%
Trizinc diphosphate	7779-90-0	1.05E-01	AERMOD (14134)	1.10E+01	24 h	230	-	Site Specific GLC	4.8%

NOTES:

(1) JSL stands for Jurisdictional Screening Level List listed in MOECC Workbook "Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants", Version 1.0, dated December 13, 2016.; GLC stands for Ground Level Concentration