

Table 4
Emission Summary Table
F & P MFG Inc.
Tottenham, Ontario

Contaminant	CAS No.	Total Facility Emission Rate (g/s)	Air Dispersion Model Used	Max. POI Concentration (µg/m ³)	Averaging Period (hours)	MECP POI Limit ⁽¹⁾ (µg/m ³)	Limiting Effect	Regulation Schedule #	Percentage of MECP POI Limit
Particulate Matter	NA-1	2.08E-01	AERMOD v.22112	1.07E+01	24	120	Visibility	B1	9%
Iron	7439-89-6	2.00E-01	AERMOD v.22112	9.99E+00	24	25 (3)	Health	B1	40%
Manganese	7439-96-5	2.90E-03	AERMOD v.22112	2.01E-01	24	0.4	Health	B1	50%
Nickel	7440-02-0	2.96E-04	AERMOD v.22112	3.87E-03	annual	0.04	Health	B1	10%
Nickel	7440-02-0	2.96E-04	AERMOD v.22112	3.87E-03	annual	0.4	Health	AAV	<1%
Nickel	7440-02-0	2.96E-04	AERMOD v.22112	1.10E-01	24	2	URT	DAV	5%
Sulphur	7440-34-9	4.21E-05	AERMOD v.22112	2.08E-03	24	0.1	Deminimus	-	2%
Chromium	7440-47-3	2.81E-04	AERMOD v.22112	1.48E-02	24	0.5	Health	B1	3%
Chromium, hexavalent	18540-29-9	3.59E-06	AERMOD v.22112	4.83E-05	annual	0.00014	Health	B1	35%
Chromium, hexavalent	18540-29-9	3.59E-06	AERMOD v.22112	4.83E-05	annual	0.0014	Health	AAV	3%
Chromium, hexavalent	18540-29-9	3.59E-06	AERMOD v.22112	2.12E-04	24	0.07	URT	DAV	<1%
Nitrogen Oxides	10102-44-0	6.53E-01	AERMOD v.19191	1.22E+02	24	200	Health	B1	61%
Nitrogen Oxides	10102-44-0	6.53E-01	AERMOD v.19191	3.61E+02	1	400	Health	B1	90%
Nitrogen Oxides (Emergency)	10102-44-0	2.43E+00	AERMOD v.19191	1.51E+03	0.5	1880	-	-	80%
Potassium Hydroxide	1310-58-3	9.12E-03	AERMOD v.19191	1.11E+00	24	14	Corrosion	B1	8%
Sodium Hydroxide	1310-73-2	1.40E-03	AERMOD v.19191	1.71E-01	24	10	Corrosion	B1	2%
Butylcarbitol formal	143-29-3	1.05E-03	AERMOD v.19191	2.69E-01	24	7	Health	B2	4%
Dibutyl Tin Oxide	818-08-6	3.16E-03	AERMOD v.22112	8.07E-01	24	1	Health	-	81%
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	9.11E-05	AERMOD v.19191	1.47E-02	24	0.5	Health	B2	3%
3(2H)-Isothiazolone, 2-methyl-	2682-20-4	3.04E-04	AERMOD v.19191	4.89E-02	24	0.5	Health	B2	10%

Notes:

- (1) Schedule 3 Standard criteria listed in the MECP Air Contaminants Benchmarks (ACB) List: Standards, Guidelines, and Screening Levels for Assessing POI Concentrations of Air Contaminants dated April 2018.
- (2) Compound does not have criteria listed in the MECP ACB List and cannot be screened as being emitted as negligible. A maximum ground level concentration request has been included in the ECA application.
- (3) Iron emissions from welding are in the form of ferric oxide, therefore criteria for ferric (iron) oxide is used.
- B1 - Benchmark 1 - Exceedance of a Benchmark 1 concentration triggers specific actions under the Regulation.
- B2 - Benchmark 2 - Exceedance of a Benchmark 2 concentration triggers a toxicological assessment to determine the likelihood of adverse effect.