APPENDIX A

Emission Calculations by Scenario

Main Stack - 140,000 TPA

Source Description: Emissions from the main stack under Current Maximum Operating Scenario

Operating Rate: Both boilers are operating at 110% MCR at operating point 2`.

Methodology: Engineering calculations
Source: All emission concentrations are guarantees from Covanta where available or have been taken from the Environmental Assessment

Train Parameters:

Volumetric flow rate per train (At operating point 2')	21.31	m^3/s at reference conditions of 0% Moisture, 11% Oxygen and 298.15K temperature
	26.13	m^3/s at operational conditions
Total Volumetric flow rate	52.26	m^3/s at operational conditions
Waste Processing Rate per unit	215.77	Mg/day
Annual Hours Required to Process 140, 000 tonnes per annum	7785.93	Hours

Sample Calculation 1: Particulate matter emission per train

Emission Rate [g/s] = Concentration[mg/dscm] x volumetric flow rate [dm^3/s] x 1/1000 [mg/g]

$$= \frac{22.41 \ \frac{ug}{m^3} \quad 21 \ \frac{m^3}{s} \quad 1 \ \frac{mol}{1{,}000 \ m^3}}$$

$$= 4.78E\text{-}01 \ \frac{g}{s}$$

Sample Calculation 2: Bromodichloromethane emission per train

Emission Rate [g/s] = Concentration[kg/Mg] x Processing Rate [Mg/day] x 1000 [kg/g] x 1/86400 [day/s]

$$= \frac{1.50E\text{-}03 \ \frac{kg}{Mg} \quad 216 \ \frac{Mg}{day} \quad 1000 \ \frac{Kg}{1 \ g} \quad 1 \ \frac{day}{86400 \ s}}$$

$$= 3.75E\text{-}03 \ \frac{g}{s}$$

Sample Calculation 3: Benzene Annual Emission Rate

Emission Rate [g/s] = Hourly Emission Rate [g/s] x Annual Processing Hours [Hours/year] / Total Hours per Year [Hours/year]

$$= \frac{1.32E\text{-}03 \ \frac{g}{s} \quad 7{,}786 \ \frac{Hours}{Year} \quad 1 \ \frac{Year}{8{,}760 \ Hours}}$$

$$= 1.17E\text{-}03 \ \frac{g}{s}$$

Source Emissions:

Contaminant	CAS Number	Concentration per train	Units[(1)]	Concentration Reference	Emission Rate per Train [g/s]	Total Emission Rate [g/s]	Annual Emission Rate [g/s]
Carbon Monoxide	630-08-0	4.50E+01	mg/Rm3	ESDM Report	9.59E-01	1.92E+00	—
Sulphur Dioxide	7446-09-5	3.50E+01	mg/Rm3	ECA Limit	7.47E-01	1.49E+00	1.33E+00
Total Particulate Matter	N/A -1	2.24E+01	mg/Rm3	ESDM Report	4.78E-01	9.55E-01	—
Filterable TSP	N/A -2	9.00E+00	mg/Rm3	ECA Limit	1.92E-01	3.84E-01	—
PM10	N/A -3	2.24E+01	mg/Rm3	ESDM Report	4.78E-01	9.55E-01	—
PM2.5	N/A -4	2.10E+01	mg/Rm3	ESDM Report	4.48E-01	8.95E-01	—
VOCs as CH4	N/A -5	4.90E+01	mg/Rm3	ESDM Report	1.04E+00	2.09E+00	—
Lead	7439-92-1	5.00E-02	mg/Rm3	ECA Limit	1.07E-03	2.13E-03	—
Cadmium	7440-43-9	7.00E-03	mg/Rm3	ECA Limit	1.49E-04	2.98E-04	—
Mercury	7439-97-6	1.50E-02	mg/Rm3	ECA Limit	3.20E-04	6.39E-04	—
Hydrogen Fluoride	7664-39-3	9.00E-01	mg/Rm3	ESDM Report	1.92E-02	3.84E-02	—
PCDD (I-TEQ)	N/A -6	6.00E-08	mg/Rm3	ECA Limit	0.0013 µg TEQ/s	0.0026 µg TEQ/s	—
Hydrogen Chloride	7647-01-0	9.00E+00	mg/Rm3	ECA Limit	1.92E-01	3.84E-01	—
Ammonia	7664-41-7	9.90E+00	mg/Rm3	ESDM Report	2.11E-01	4.22E-01	—
Nitrogen Oxides	10102-44-0	1.21E+02	mg/Rm3	ECA Limit	2.57E+00	5.14E+00	—
Polychlorinated Biphenyls (PCB)	N/A -7	7.22E-05	mg/Rm3	ESDM Report	1.54E-06	3.08E-06	—
Aluminum	7429-90-5	3.98E-02	mg/Rm3	ESDM Report	8.47E-04	1.69E-03	—
Antimony	7440-36-0	2.74E-03	mg/Rm3	ESDM Report	5.84E-05	1.17E-04	—
Arsenic	7440-38-2	4.20E-04	mg/Rm3	ESDM Report	8.95E-06	1.79E-05	—
Barium	7440-39-3	2.11E-03	mg/Rm3	ESDM Report	4.51E-05	9.01E-05	—
Beryllium	7440-41-7	3.33E-04	mg/Rm3	ESDM Report	7.10E-06	1.42E-05	—
Boron	7440-42-8	1.53E-01	mg/Rm3	ESDM Report	3.26E-03	6.52E-03	—
Chromium (hexavalent)	18540-29-9	3.20E-04	mg/Rm3	ESDM Report	6.82E-06	1.36E-05	1.21E-05
Total Chromium (and compounds)	7440-47-3	2.25E-03	mg/Rm3	ESDM Report	4.79E-05	9.59E-05	—
Cobalt	7440-48-4	5.79E-03	mg/Rm3	ESDM Report	1.23E-04	2.47E-04	—
Nickel	7440-02-0	8.71E-02	mg/Rm3	ESDM Report	1.86E-03	3.71E-03	3.30E-03
Phosphorus	7723-14-0	4.60E-02	mg/Rm3	ESDM Report	9.81E-04	1.96E-03	—
Silver	7440-22-4	3.35E-03	mg/Rm3	ESDM Report	7.14E-05	1.43E-04	—
Selenium	7782-49-2	4.80E-04	mg/Rm3	ESDM Report	1.02E-05	2.05E-05	—
Thallium	7440-28-0	3.90E-02	mg/Rm3	ESDM Report	8.31E-04	1.66E-03	—
Tin	7440-31-5	1.76E-02	mg/Rm3	ESDM Report	3.75E-04	7.50E-04	—
Vanadium	7440-62-2	1.16E-03	mg/Rm3	ESDM Report	2.48E-05	4.96E-05	—
Zinc	7440-66-6	2.00E-01	mg/Rm3	ESDM Report	4.25E-03	8.50E-03	—
1,2-Dichlorobenzene	95-50-1	2.05E-03	mg/Rm3	ESDM Report	4.36E-05	8.72E-05	—
1,2,4,5-Tetrachlorobenzene	95-94-3	5.15E-05	mg/Rm3	ESDM Report	1.10E-06	2.19E-06	—
1,2,4 – Trichlorobenzene	120-82-1	5.15E-05	mg/Rm3	ESDM Report	1.10E-06	2.19E-06	—
2,3,4,6-Tetrachlorophenol	58-90-2	1.74E-04	mg/Rm3	ESDM Report	3.70E-06	7.41E-06	—
2,4,6-Trichlorophenol	88-06-2	5.23E-05	mg/Rm3	ESDM Report	1.12E-06	2.23E-06	—
2,4-Dichlorophenol	120-83-2	1.03E-04	mg/Rm3	ESDM Report	2.19E-06	4.39E-06	—
Pentachlorophenol	87-86-5	2.06E-04	mg/Rm3	ESDM Report	4.39E-06	8.79E-06	—
Hexachlorobenzene	118-74-1	5.15E-05	mg/Rm3	ESDM Report	1.10E-06	2.19E-06	—
Pentachlorobenzene	608-93-5	1.35E-04	mg/Rm3	ESDM Report	2.88E-06	5.77E-06	—
Acenaphthylene	208-96-8	1.45E-05	mg/Rm3	ESDM Report	3.09E-07	6.18E-07	—
Acenaphthene	83-32-9	1.86E-05	mg/Rm3	ESDM Report	3.96E-07	7.93E-07	—
Anthracene	120-12-7	4.07E-06	mg/Rm3	ESDM Report	8.67E-08	1.73E-07	—

Benzo(a)anthracene	56-55-3	1.50E-06	mg/Rm3	ESDM Report	3.20E-08	6.39E-08	—
Benzo(b)fluoranthene	205-99-2	3.83E-06	mg/Rm3	ESDM Report	8.16E-08	1.63E-07	—
Benzo(k)fluoranthene	207-08-9	1.01E-06	mg/Rm3	ESDM Report	2.15E-08	4.30E-08	—
Benzo(a)fluorene	238-84-6	2.76E-05	mg/Rm3	ESDM Report	5.89E-07	1.18E-06	—
Benzo(b)fluorene	243-17-4	1.89E-05	mg/Rm3	ESDM Report	4.03E-07	8.06E-07	—
Benzo(ghi)perylene	191-24-2	4.13E-05	mg/Rm3	ESDM Report	8.80E-07	1.76E-06	—
Benzo(a)pyrene	50-32-8	3.44E-06	mg/Rm3	ESDM Report	7.33E-08	1.47E-07	1.30E-07
Benzo(e)pyrene	192-97-2	8.71E-06	mg/Rm3	ESDM Report	1.86E-07	3.71E-07	—
Biphenyl	92-51-3	2.98E-03	mg/Rm3	ESDM Report	6.36E-05	1.27E-04	—
Chrysene	218-01-9	3.77E-06	mg/Rm3	ESDM Report	8.03E-08	1.61E-07	—
Dibenzo(a,c)anthracene	215-58-7	2.68E-05	mg/Rm3	ESDM Report	5.71E-07	1.14E-06	—
Dibenzo(a,h)anthracene	53-70-3	1.21E-06	mg/Rm3	ESDM Report	2.58E-08	5.16E-08	—
Fluoranthene	206-44-0	4.16E-05	mg/Rm3	ESDM Report	8.86E-07	1.77E-06	—
Fluorine	86-73-7	3.13E-05	mg/Rm3	ESDM Report	6.67E-07	1.33E-06	—
Indeno(1,2,3 – cd)pyrene	193-39-5	7.54E-06	mg/Rm3	ESDM Report	1.61E-07	3.21E-07	—
1 – methylnaphthalene	90-12-0	9.82E-05	mg/Rm3	ESDM Report	2.09E-06	4.18E-06	—
2 – methylnaphthalene	91-57-6	5.44E-04	mg/Rm3	ESDM Report	1.16E-05	2.32E-05	—
Naphthalene	91-20-3	4.23E-04	mg/Rm3	ESDM Report	9.01E-06	1.80E-05	—
Perylene	198-55-0	1.51E-06	mg/Rm3	ESDM Report	3.22E-08	6.44E-08	—
Phenanthrene	85-01-8	9.46E-05	mg/Rm3	ESDM Report	2.02E-06	4.03E-06	—
Pyrene	129-00-0	5.02E-05	mg/Rm3	ESDM Report	1.07E-06	2.14E-06	—
Tetralin	119-64-2	4.99E-04	mg/Rm3	ESDM Report	1.06E-05	2.12E-05	—
O-terphenyl	84-15-1	8.18E-05	mg/Rm3	ESDM Report	1.74E-06	3.49E-06	—
Acetaldehyde	75-07-0	4.30E-09	kg/Mg	ESDM Report	1.07E-08	2.15E-08	—
Benzene	71-43-2	3.10E-02	mg/Rm3	ESDM Report	6.61E-04	1.32E-03	1.17E-03
Bromodichloromethane	75-27-4	1.50E-03	kg/Mg	ESDM Report	3.75E-03	7.50E-03	—
Bromoform	75-25-2	4.11E-04	kg/Mg	ESDM Report	1.03E-03	2.05E-03	—
Bromomethane	74-83-9	3.60E-02	mg/Rm3	ESDM Report	7.67E-04	1.53E-03	—
Carbon tetrachloride	56-23-5	2.56E-06	kg/Mg	ESDM Report	6.39E-06	1.28E-05	—
Chloroform	67-66-3	5.10E-04	mg/Rm3	ESDM Report	1.09E-05	2.17E-05	—
Dichlorodifluoromethane	75-71-8	8.71E-02	mg/Rm3	ESDM Report	1.86E-03	3.71E-03	—
Dichloroethene, 1,1 -	75-34-3	5.65E-04	mg/Rm3	ESDM Report	1.20E-05	2.41E-05	—
Dichloromethane	75-09-2	1.76E-01	mg/Rm3	ESDM Report	3.75E-03	7.50E-03	—
Ethylbenzene	100-41-4	1.04E-03	mg/Rm3	ESDM Report	2.21E-05	4.42E-05	—
Ethylene Dibromide	106-93-4	2.41E-06	kg/Mg	ESDM Report	6.02E-06	1.20E-05	—
Formaldehyde	50-00-0	4.75E-02	mg/Rm3	ESDM Report	1.01E-03	2.02E-03	—
Tetrachloroethene	127-18-4	5.67E-03	mg/Rm3	ESDM Report	1.21E-04	2.42E-04	—
Toluene	108-88-3	5.03E-02	mg/Rm3	ESDM Report	1.07E-03	2.14E-03	—
Trichloroethane, 1,1,1 -	71-55-6	1.43E-03	mg/Rm3	ESDM Report	3.04E-05	6.08E-05	—
Trichloroethene	86-42-0	4.92E-04	mg/Rm3	ESDM Report	1.05E-05	2.10E-05	—
Trichloroethylene, 1,1,2 -	79-01-6	4.92E-04	mg/Rm3	ESDM Report	1.05E-05	2.10E-05	—
Trichlorofluoromethane	75-69-4	1.72E-01	mg/Rm3	ESDM Report	3.67E-03	7.34E-03	—
Vinyl chloride	75-01-4	4.36E-02	mg/Rm3	ESDM Report	9.29E-04	1.86E-03	—
Xylenes, m-, p- and o-	1330-20-7	6.04E-01	mg/Rm3	ESDM Report	1.29E-02	2.57E-02	—

1. Concentrations are at reference conditions of 0% Moisture, 11% Oxygen and 298.15K temperature

Main Stack - 160,000 TPA

Source Description: Emissions from the main stack under Proposed Future Operating Scenario with both boilers operational.

Operating Rate: Both boilers are operating at 110% MCR at operating point 1`.

Methodology: Engineering calculations
Source: All emission concentrations are guarantees from Covanta where available or have been taken from the Environmental Assessment

Train Parameters:

Volumetric flow rate per train (At operating point 1')	22.37	m^3/s at reference conditions of 0% Moisture, 11% Oxygen and 298.15K temperature
	26.18	m^3/s at operational conditions
Total Volumetric flow rate	52.36	m^3/s at operational conditions
Waste Processing Rate	231.65	Mg/day
Annual Hours Required to Process 160, 000 tonnes per annum	8288.37	Hours

Sample Calculation 1: Particulate matter emission per train

Emission Rate [g/s] = Concentration[mg/dscm] x volumetric flow rate [dm^3/s] x 1/1000 [mg/g]

$$= \frac{22.41\ \text{mg}}{\text{m}^3} \times \frac{22\ \text{m}^3}{\text{s}} \times \frac{1}{1{,}000} \times \frac{\text{g}}{\text{mg}}$$

$$= 5.01\text{E-}01\ \frac{\text{g}}{\text{s}}$$

Sample Calculation 2: Bromodichloromethane emission per train

Emission Rate [g/s] = Concentration[kg/Mg] x Processing Rate [Mg/day] x 1000 [kg/g] x 1/86400 [day/s]

$$= \frac{1.50\text{E-}03\ \text{kg}}{\text{Mg}} \times \frac{232\ \text{Mg}}{\text{day}} \times \frac{1000}{1} \times \frac{\text{Kg}}{\text{g}} \times \frac{1}{86400} \times \frac{\text{day}}{\text{s}}$$

$$= 4.03\text{E-}03\ \frac{\text{g}}{\text{s}}$$

Sample Calculation 3: Benzene Annual Emission Rate

Emission Rate [g/s] = Hourly Emission Rate [g/s] x Annual Processing Hours [Hours/year] / Total Hours per Year [Hours/year]

$$= \frac{8.05\text{E-}03\ \text{g}}{\text{s}} \times \frac{8{,}288\ \text{Hours}}{\text{Year}} \times \frac{1}{8{,}760} \times \frac{\text{Year}}{\text{Hours}}$$

$$= 7.62\text{E-}03\ \frac{\text{g}}{\text{s}}$$

Source Emissions:

Contaminant	CAS Number	Concentration per train	Units[(1)]	Concentration Reference	Emission Rate per Train [g/s]	Total Emission Rate [g/s]	Annual Emission Rate [g/s]
Carbon Monoxide	630-08-0	4.50E+01	mg/Rm3	ESDM Report	1.01E+00	2.01E+00	—
Sulphur Dioxide	7446-09-5	3.50E+01	mg/Rm3	ECA Limit	7.84E-01	1.57E+00	1.48E+00
Total Particulate Matter	N/A -1	2.24E+01	mg/Rm3	ESDM Report	5.01E-01	1.00E+00	—
Filterable TSP	N/A -2	9.00E+00	mg/Rm3	ECA Limit	2.01E-01	4.03E-01	—
PM10	N/A -3	2.24E+01	mg/Rm3	ESDM Report	5.01E-01	1.00E+00	—
PM2.5	N/A -4	2.10E+01	mg/Rm3	ESDM Report	4.70E-01	9.40E-01	—
VOCs as CH4	N/A -5	4.90E+01	mg/Rm3	ESDM Report	1.10E+00	2.19E+00	—
Lead	7439-92-1	5.00E-02	mg/Rm3	ECA Limit	1.12E-03	2.24E-03	—
Cadmium	7440-43-9	7.00E-03	mg/Rm3	ECA Limit	1.57E-04	3.13E-04	—
Mercury	7439-97-6	1.50E-02	mg/Rm3	ECA Limit	3.36E-04	6.71E-04	—
Hydrogen Fluoride	7664-39-3	9.00E-01	mg/Rm3	ESDM Report	2.01E-02	4.03E-02	—
PCDD (I-TEQ)	N/A -6	6.00E-02	mg/Rm3	ECA Limit	0.0013 µg TEQ/s	0.0027 µg TEQ/s	—
Hydrogen Chloride	7647-01-0	9.00E+00	mg/Rm3	ECA Limit	2.01E-01	4.03E-01	—
Ammonia	7664-41-7	9.90E+00	mg/Rm3	ESDM Report	2.22E-01	4.43E-01	—
Nitrogen Oxides	10102-44-0	1.21E+02	mg/Rm3	ECA Limit	2.71E+00	5.41E+00	—
Polychlorinated Biphenyls (PCB)	N/A -7	7.22E-05	mg/Rm3	ESDM Report	1.62E-06	3.23E-06	—
Aluminum	7429-90-5	3.98E-02	mg/Rm3	ESDM Report	8.89E-04	1.78E-03	—
Antimony	7440-36-0	2.74E-03	mg/Rm3	ESDM Report	6.13E-05	1.23E-04	—
Arsenic	7440-38-2	4.20E-04	mg/Rm3	ESDM Report	9.40E-06	1.88E-05	—
Barium	7440-39-3	2.11E-03	mg/Rm3	ESDM Report	4.73E-05	9.46E-05	—
Beryllium	7440-41-7	3.33E-04	mg/Rm3	ESDM Report	7.45E-06	1.49E-05	—
Boron	7440-42-8	1.53E-01	mg/Rm3	ESDM Report	3.42E-03	6.85E-03	—
Chromium (hexavalent)	18540-29-9	3.20E-04	mg/Rm3	ESDM Report	7.16E-06	1.43E-05	1.35E-05
Total Chromium (and compounds)	7440-47-3	2.25E-03	mg/Rm3	ESDM Report	5.03E-05	1.01E-04	—
Cobalt	7440-48-4	5.79E-03	mg/Rm3	ESDM Report	1.30E-04	2.59E-04	—
Nickel	7440-02-0	8.71E-02	mg/Rm3	ESDM Report	1.95E-03	3.90E-03	3.69E-03
Phosphorus	7723-14-0	4.60E-02	mg/Rm3	ESDM Report	1.03E-03	2.06E-03	—
Silver	7440-22-4	3.35E-03	mg/Rm3	ESDM Report	7.50E-05	1.50E-04	—
Selenium	7782-49-2	4.80E-04	mg/Rm3	ESDM Report	1.07E-05	2.15E-05	—
Thallium	7440-28-0	3.90E-02	mg/Rm3	ESDM Report	8.73E-04	1.75E-03	—
Tin	7440-31-5	1.76E-02	mg/Rm3	ESDM Report	3.94E-04	7.87E-04	—
Vanadium	7440-62-2	1.16E-03	mg/Rm3	ESDM Report	2.60E-05	5.20E-05	—
Zinc	7440-66-6	2.00E-01	mg/Rm3	ESDM Report	4.46E-03	8.93E-03	—
1,2-Dichlorobenzene	95-50-1	2.05E-03	mg/Rm3	ESDM Report	4.58E-05	9.15E-05	—
1,2,4,5-Tetrachlorobenzene	95-94-3	5.15E-05	mg/Rm3	ESDM Report	1.15E-06	2.30E-06	—
1,2,4 – Trichlorobenzene	120-82-1	5.15E-05	mg/Rm3	ESDM Report	1.15E-06	2.30E-06	—
2,3,4,6-Tetrachlorophenol	58-90-2	1.74E-04	mg/Rm3	ESDM Report	3.89E-06	7.78E-06	—
2,4,6-Trichlorophenol	88-06-2	5.23E-05	mg/Rm3	ESDM Report	1.17E-06	2.34E-06	—
2,4-Dichlorophenol	120-83-2	1.03E-04	mg/Rm3	ESDM Report	2.30E-06	4.61E-06	—
Pentachlorophenol	87-86-5	2.06E-04	mg/Rm3	ESDM Report	4.61E-06	9.23E-06	—
Hexachlorobenzene	118-74-1	5.15E-05	mg/Rm3	ESDM Report	1.15E-06	2.30E-06	—
Pentachlorobenzene	608-93-5	1.35E-04	mg/Rm3	ESDM Report	3.03E-06	6.05E-06	—
Acenaphthylene	208-96-8	1.45E-05	mg/Rm3	ESDM Report	3.24E-07	6.49E-07	—
Acenaphthene	83-32-9	1.86E-05	mg/Rm3	ESDM Report	4.16E-07	8.32E-07	—
Anthracene	120-12-7	4.07E-06	mg/Rm3	ESDM Report	9.11E-08	1.82E-07	—

Benzo(a)anthracene	56-55-3	1.50E-06	mg/Rm3	ESDM Report	3.36E-08	6.71E-08	—
Benzo(b)fluoranthene	205-99-2	3.83E-06	mg/Rm3	ESDM Report	8.57E-08	1.71E-07	—
Benzo(k)fluoranthene	207-08-9	1.01E-06	mg/Rm3	ESDM Report	2.26E-08	4.52E-08	—
Benzo(a)fluorene	238-84-6	2.76E-05	mg/Rm3	ESDM Report	6.18E-07	1.24E-06	—
Benzo(b)fluorene	243-17-4	1.89E-05	mg/Rm3	ESDM Report	4.23E-07	8.46E-07	—
Benzo(ghi)perylene	191-24-2	4.13E-05	mg/Rm3	ESDM Report	9.24E-07	1.85E-06	—
Benzo(a)pyrene	50-32-8	3.44E-06	mg/Rm3	ESDM Report	7.70E-08	1.54E-07	1.46E-07
Benzo(e)pyrene	192-97-2	8.71E-06	mg/Rm3	ESDM Report	1.95E-07	3.90E-07	—
Biphenyl	92-51-3	2.98E-03	mg/Rm3	ESDM Report	6.67E-05	1.33E-04	—
Chrysene	218-01-9	3.77E-06	mg/Rm3	ESDM Report	8.43E-08	1.69E-07	—
Dibenzo(a,c)anthracene	215-58-7	2.68E-05	mg/Rm3	ESDM Report	6.00E-07	1.20E-06	—
Dibenzo(a,h)anthracene	53-70-3	1.21E-06	mg/Rm3	ESDM Report	2.71E-08	5.41E-08	—
Fluoranthene	206-44-0	4.16E-05	mg/Rm3	ESDM Report	9.31E-07	1.86E-06	—
Fluorine	86-73-7	3.13E-05	mg/Rm3	ESDM Report	7.00E-07	1.40E-06	—
Indeno(1,2,3 – cd)pyrene	193-39-5	7.54E-06	mg/Rm3	ESDM Report	1.69E-07	3.37E-07	—
1 – methylnaphthalene	90-12-0	9.82E-05	mg/Rm3	ESDM Report	2.20E-06	4.39E-06	—
2 – methylnaphthalene	91-57-6	5.44E-04	mg/Rm3	ESDM Report	1.22E-05	2.43E-05	—
Naphthalene	91-20-3	4.23E-04	mg/Rm3	ESDM Report	9.46E-06	1.89E-05	—
Perylene	198-55-0	1.51E-06	mg/Rm3	ESDM Report	3.38E-08	6.76E-08	—
Phenanthrene	85-01-8	9.46E-05	mg/Rm3	ESDM Report	2.12E-06	4.23E-06	—
Pyrene	129-00-0	5.02E-05	mg/Rm3	ESDM Report	1.12E-06	2.25E-06	—
Tetralin	119-64-2	4.99E-04	mg/Rm3	ESDM Report	1.12E-05	2.23E-05	—
O-terphenyl	84-15-1	8.18E-05	mg/Rm3	ESDM Report	1.83E-06	3.66E-06	—
Acetaldehyde	75-07-0	4.30E-09	kg/Mg	ESDM Report	1.15E-08	2.31E-08	—
Benzene	71-43-2	3.10E-02	mg/Rm3	ESDM Report	6.94E-04	1.39E-03	1.31E-03
Bromodichloromethane	75-27-4	1.50E-03	kg/Mg	ESDM Report	4.03E-03	8.05E-03	—
Bromoform	75-25-2	4.11E-04	kg/Mg	ESDM Report	1.10E-03	2.20E-03	—
Bromomethane	74-83-9	3.60E-02	mg/Rm3	ESDM Report	8.05E-04	1.61E-03	—
Carbon tetrachloride	56-23-5	2.56E-06	kg/Mg	ESDM Report	6.86E-06	1.37E-05	—
Chloroform	67-66-3	5.10E-04	mg/Rm3	ESDM Report	1.14E-05	2.28E-05	—
Dichlorodifluoromethane	75-71-8	8.71E-02	mg/Rm3	ESDM Report	1.95E-03	3.90E-03	—
Dichloroethene, 1,1 -	75-34-3	5.65E-04	mg/Rm3	ESDM Report	1.27E-05	2.53E-05	—
Dichloromethane	75-09-2	1.76E-01	mg/Rm3	ESDM Report	3.94E-03	7.88E-03	—
Ethylbenzene	100-41-4	1.04E-03	mg/Rm3	ESDM Report	2.32E-05	4.64E-05	—
Ethylene Dibromide	106-93-4	2.41E-06	kg/Mg	ESDM Report	6.46E-06	1.29E-05	—
Formaldehyde	50-00-0	4.75E-02	mg/Rm3	ESDM Report	1.06E-03	2.13E-03	—
Tetrachloroethene	127-18-4	5.67E-03	mg/Rm3	ESDM Report	1.27E-04	2.54E-04	—
Toluene	108-88-3	5.03E-02	mg/Rm3	ESDM Report	1.12E-03	2.25E-03	—
Trichloroethane, 1,1,1 -	71-55-6	1.43E-03	mg/Rm3	ESDM Report	3.19E-05	6.39E-05	—
Trichloroethene	86-42-0	4.92E-04	mg/Rm3	ESDM Report	1.10E-05	2.20E-05	—
Trichloroethylene, 1,1,2 -	79-01-6	4.92E-04	mg/Rm3	ESDM Report	1.10E-05	2.20E-05	—
Trichlorofluoromethane	75-69-4	1.72E-01	mg/Rm3	ESDM Report	3.85E-03	7.71E-03	—
Vinyl chloride	75-01-4	4.36E-02	mg/Rm3	ESDM Report	9.76E-04	1.95E-03	—
Xylenes, m-, p- and o-	1330-20-7	6.04E-01	mg/Rm3	ESDM Report	1.35E-02	2.70E-02	—

1. Concentrations are at reference conditions of 0% Moisture, 11% Oxygen and 298.15K temperature

APPENDIX B

Emission Summary Table by Scenario

Appendix B - 140,000 TPA
Emission Summary Table

Contaminant	CAS No.	Total Facility Emission Rate [g/s]	Averaging Period	MECP POI Limit [µg/m³]	Limiting Effect	Schedule	Source	Benchmark	Maximum POI Concentration [µg/m³]	Percentage of MECP Limit [%]	Background Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Percentage of MECP Limit [%]
1 – Methylnaphthalene	90-12-0	4.18E-06	24-hour	35.5	Health	Sch. 3	SL-JSL	B2	4.10E-06	Below B2	1.30E-03	1.30E-03	Below B2
1,2,4 – Trichlorobenzene	120-82-1	2.19E-06	24-hour	400	Health	Sch. 3	Guideline	B1	2.15E-06	<1%	5.00E-02	5.00E-02	<1%
1,2,4,5-Tetrachlorobenzene	95-94-3	2.19E-06	24-hour	1	Health	Sch. 3	SL-JSL	B2	2.15E-06	Below B2	—	2.15E-06	Below B2
1,2-Dichlorobenzene	95-50-1	8.72E-05	1-hour	30500	Health	Sch. 3	Guideline	B1	5.03E-04	<1%	3.00E-02	3.05E-02	<1%
2 – Methylnaphthalene	91-57-6	2.32E-05	24-hour	0.1	—	—	De Minimus	—	2.27E-05	Below De Minimus	2.19E-03	2.21E-03	Below De Minimus
2,3,4,6-Tetrachlorophenol	58-90-2	7.41E-06	24-hour	0.75	Health	Sch. 3	SL-JSL	B2	7.26E-06	Below B2	—	7.26E-06	Below B2
2,4,6-Trichlorophenol	88-06-2	2.23E-06	24-hour	1.5	Health	Sch. 3	SL-JSL	B2	2.19E-06	Below B2	—	2.19E-06	Below B2
2,4-Dichlorophenol	120-83-2	4.39E-06	24-hour	33.5	Health	Sch. 3	SL-JSL	B2	4.30E-06	Below B2	—	4.30E-06	Below B2
Acenaphthene	83-32-9	7.93E-07	24-hour	0.1	—	—	De Minimus	—	7.77E-07	Below De Minimus	1.25E-03	1.25E-03	Below De Minimus
Acenaphthylene	208-96-8	6.18E-07	24-hour	0.1	—	—	De Minimus	—	6.06E-07	Below De Minimus	3.09E-04	3.10E-04	Below De Minimus
Acetaldehyde	75-07-0	2.15E-08	24-hour	500	Health	Sch. 3	Standard	B1	2.11E-08	<1%	1.76E+00	1.76E+00	<1%
Acetaldehyde	75-07-0	2.15E-08	1/2-hour	500	Health	Sch. 3	Standard	B1	1.49E-07	<1%	5.21E+00	5.21E+00	1%
Acetaldehyde	75-07-0	2.15E-08	24-hour	5000	—	Sch. 6	URT	—	2.11E-08	Below URT	1.76E+00	1.76E+00	Below URT
Aluminum	7429-90-5	1.69E-03	24-hour	12	Health	Sch. 3	SL-JSL	B2	1.66E-03	Below B2	2.10E-01	2.12E-01	Below B2
Ammonia	7664-41-7	4.22E-01	24-hour	100	Health	Sch. 3	Standard	B1	4.13E-01	<1%	—	4.13E-01	<1%
Ammonia	7664-41-7	4.22E-01	24-hour	1000	—	Sch. 6	URT	—	4.13E-01	Below URT	—	4.13E-01	Below URT
Anthracene	120-12-7	1.73E-07	24-hour	0.1	—	—	De Minimus	—	1.70E-07	Below De Minimus	1.63E-04	1.63E-04	Below De Minimus
Antimony	7440-36-0	1.17E-04	24-hour	25	Health	Sch. 3	Standard	B1	1.14E-04	<1%	3.02E-03	3.13E-03	<1%
Arsenic	7440-38-2	1.79E-05	24-hour	0.3	Health	Sch. 3	Guideline	B1	1.75E-05	<1%	1.81E-03	1.83E-03	<1%
Barium	7440-39-3	9.01E-05	24-hour	10	Health	Sch. 3	Guideline	B1	8.83E-05	<1%	8.18E-03	8.27E-03	<1%
Benzene	71-43-2	1.17E-03	Annual	0.45	Health	Sch. 3	Standard	B1	3.71E-05	<1%	4.00E-02	4.00E-02	9%
Benzene	71-43-2	1.32E-03	24-hour	100	—	Sch. 6	URT	—	1.29E-03	Below URT	1.18E+01	1.18E+01	Below URT
Benzene	71-43-2	1.17E-03	Annual	4.5	—	—	AAV	—	3.71E-05	<1%	4.00E-02	4.00E-02	1%
Benzo(a)anthracene	56-55-3	6.39E-08	24-hour	0.1	—	—	De Minimus	—	6.26E-08	Below De Minimus	6.77E-05	6.78E-05	Below De Minimus
Benzo(a)fluorene	238-84-6	1.18E-06	24-hour	0.1	—	—	De Minimus	—	1.15E-06	Below De Minimus	1.35E-04	1.36E-04	Below De Minimus
Benzo(a)pyrene	50-32-8	1.30E-07	Annual	0.00001	Health	Sch. 3	Standard	B1	4.12E-09	<1%	5.63E-05	5.63E-05	563%
Benzo(a)pyrene	50-32-8	1.47E-07	24-hour	0.005	—	Sch. 6	URT	—	1.44E-07	Below URT	6.77E-05	6.78E-05	Below URT
Benzo(a)pyrene	50-32-8	1.30E-07	Annual	0.0001	—	—	AAV	—	4.12E-09	<1%	5.63E-05	5.63E-05	56%
Benzo(b)fluoranthene	205-99-2	1.63E-07	24-hour	0.1	—	—	De Minimus	—	1.60E-07	Below De Minimus	1.42E-04	1.42E-04	Below De Minimus
Benzo(b)fluorene	243-17-4	8.06E-07	24-hour	0.1	—	—	De Minimus	—	7.90E-07	Below De Minimus	1.35E-04	1.36E-04	Below De Minimus
Benzo(e)pyrene	192-97-2	3.71E-07	24-hour	0.1	—	—	De Minimus	—	3.64E-07	Below De Minimus	1.35E-04	1.35E-04	Below De Minimus
Benzo(ghi)perylene	191-24-2	1.76E-06	24-hour	0.1	—	—	De Minimus	—	1.72E-06	Below De Minimus	7.07E-05	7.24E-05	Below De Minimus
Benzo(k)fluoranthene	207-08-9	4.30E-08	24-hour	0.1	—	—	De Minimus	—	4.22E-08	Below De Minimus	6.77E-05	6.77E-05	Below De Minimus
Beryllium	7440-41-7	1.42E-05	24-hour	0.01	Health	Sch. 3	Standard	B1	1.39E-05	<1%	3.02E-04	3.16E-04	3%
Biphenyl	92-51-3	1.27E-04	24-hour	175	Health	Sch. 3	SL-JSL	B2	1.25E-04	Below B2	1.36E-03	1.48E-03	Below B2
Boron	7440-42-8	6.52E-03	24-hour	120	Particulate	Sch. 3	Standard	B1	6.39E-03	<1%	8.00E-02	8.64E-02	<1%
Bromodichloromethane	75-27-4	7.50E-03	24-hour	350	Health	Sch. 3	SL-JSL	B2	7.35E-03	Below B2	2.00E-02	2.73E-02	Below B2
Bromoform	75-25-2	2.05E-03	24-hour	55	Health	Sch. 3	Guideline	B1	2.01E-03	<1%	3.00E-02	3.20E-02	<1%
Bromomethane	74-83-9	1.53E-03	24-hour	1350	Health	Sch. 3	Guideline	B1	1.50E-03	<1%	9.00E-02	9.15E-02	<1%
Cadmium	7440-43-9	2.98E-04	24-hour	0.025	Health	Sch. 3	Standard	B1	2.92E-04	1%	6.04E-04	8.96E-04	4%
Cadmium	7440-43-9	2.98E-04	24-hour	0.25	—	Sch. 6	URT	—	2.92E-04	Below URT	6.04E-04	8.96E-04	Below URT
Carbon Monoxide	630-08-0	1.92E+00	1/2-hour	6000	Health	Sch. 3	Standard	B1	1.33E+01	<1%	1.26E+03	1.27E+03	21%
Carbon tetrachloride	56-23-5	1.28E-05	24-hour	2.4	Health	Sch. 3	Standard	B1	1.25E-05	<1%	7.40E-01	7.40E-01	31%
Carbon tetrachloride	56-23-5	1.28E-05	24-hour	24	—	Sch. 6	URT	—	1.25E-05	Below URT	7.40E-01	7.40E-01	Below URT
Chloroform	67-66-3	2.17E-05	24-hour	1	Health	Sch. 3	Standard	B1	2.13E-05	<1%	2.30E-01	2.30E-01	23%
Chloroform	67-66-3	2.17E-05	24-hour	100	—	Sch. 6	URT	—	2.13E-05	Below URT	2.30E-01	2.30E-01	Below URT
Chromium (hexavalent)	18540-29-9	1.21E-05	Annual	0.00014	Health	Sch. 3	Standard	B1	3.83E-07	<1%	—	3.83E-07	<1%
Chromium (hexavalent)	18540-29-9	1.36E-05	24-hour	0.07	—	Sch. 6	URT	—	1.34E-05	Below URT	—	1.34E-05	Below URT
Chromium (hexavalent)	18540-29-9	1.21E-05	Annual	0.0014	—	—	AAV	—	3.83E-07	0%	—	3.83E-07	0%

Appendix B - 140,000 TPA
Emission Summary Table

Contaminant	CAS No.	Total Facility Emission Rate [g/s]	Averaging Period	MECP POI Limit [µg/m³]	Limiting Effect	Schedule	Source	Benchmark	Maximum POI Concentration [µg/m³]	Percentage of MECP Limit [%]	Background Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Percentage of MECP Limit [%]
Chrysene	218-01-9	1.61E-07	24-hour	0.1	—	—	De Minimus	—	1.57E-07	Below De Minimus	9.64E-05	9.66E-05	Below De Minimus
Cobalt	7440-48-4	2.47E-04	24-hour	0.1	Health	Sch. 3	Guideline	B1	2.42E-04	<1%	6.04E-04	8.46E-04	<1%
Dibenzo(a,c)anthracene	215-58-7	1.14E-06	24-hour	0.1	—	—	De Minimus	—	1.12E-06	Below De Minimus	—	1.12E-06	Below De Minimus
Dibenzo(a,h)anthracene	53-70-3	5.16E-08	24-hour	0.1	—	—	De Minimus	—	5.05E-08	Below De Minimus	6.77E-05	6.78E-05	Below De Minimus
Dichlorodifluoromethane	75-71-8	3.71E-03	24-hour	500000	Health	Sch. 3	Guideline	B1	3.64E-03	<1%	3.23E+00	3.23E+00	<1%
Dichloroethene, 1,1 -	75-34-3	2.41E-05	24-hour	165	Health	Sch. 3	Standard	B1	2.36E-05	<1%	1.00E-02	1.00E-02	<1%
Dichloroethene, 1,1 -	75-34-3	2.41E-05	24-hour	1650	—	Sch. 6	URT	—	2.36E-05	Below URT	1.00E-02	1.00E-02	Below URT
Dichloromethane	75-09-2	7.50E-03	24-hour	220	Health	Sch. 3	Standard	B1	7.35E-03	<1%	1.27E+00	1.28E+00	<1%
Dichloromethane	75-09-2	7.50E-03	24-hour	22000	—	Sch. 6	URT	—	7.35E-03	Below URT	1.27E+00	1.28E+00	Below URT
Dioxins, Furans and Dioxin- like PCBs	N/A -6	0.0026 µg TEQ/s	24-hour	0.1 pg TEQ/m³	Health	Sch. 3	Guideline	B1	0.0025 pg TEQ/m³	3%	0.0237 pg TEQ/m³	0.0262 pg TEQ/m³	26%
Ethylbenzene	100-41-4	4.42E-05	24-hour	1000	Health	Sch. 3	Standard	B1	4.33E-05	<1%	1.24E+00	1.24E+00	<1%
Ethylbenzene	100-41-4	4.42E-05	10-minute	1900	Odour	Sch. 3	Guideline	B1	4.21E-04	<1%	5.00E+00	5.00E+00	<1%
Ethylbenzene	100-41-4	4.42E-05	24-hour	10000	—	Sch. 6	URT	—	4.33E-05	Below URT	1.24E+00	1.24E+00	Below URT
Ethylene Dibromide	106-93-4	1.20E-05	24-hour	3	Health	Sch. 3	Guideline	B1	1.18E-05	<1%	5.20E-03	5.21E-03	<1%
Fluoranthene	206-44-0	1.77E-06	24-hour	0.1	—	—	De Minimus	—	1.74E-06	Below De Minimus	6.01E-04	6.03E-04	Below De Minimus
Fluorine	86-73-7	1.33E-06	24-hour	0.1	—	—	De Minimus	—	1.31E-06	Below De Minimus	—	1.31E-06	Below De Minimus
Formaldehyde	50-00-0	2.02E-03	24-hour	65	Health	Sch. 3	Standard	B1	1.98E-03	<1%	3.38E+00	3.38E+00	5%
Hexachlorobenzene	118-74-1	2.19E-06	24-hour	0.011	Health	Sch. 3	SL-JSL	B2	2.15E-06	Below B2	6.25E-05	6.47E-05	Below B2
Hydrogen Chloride	7647-01-0	3.84E-01	24-hour	20	Health	Sch. 3	Standard	B1	3.76E-01	2%	—	3.76E-01	2%
Hydrogen Chloride	7647-01-0	3.84E-01	24-hour	200	—	Sch. 6	URT	—	3.76E-01	Below URT	—	3.76E-01	Below URT
Hydrogen Fluoride	7664-39-3	3.84E-02	24-hour	1.72	Vegetation	Sch. 3	Standard	B1	3.76E-02	2%	—	3.76E-02	2%
Hydrogen Fluoride	7664-39-3	3.84E-02	30-day	0.69	Vegetation	Sch. 3	Standard	B1	4.53E-03	<1%	—	4.53E-03	<1%
Indeno(1,2,3 – cd)pyrene	193-39-5	3.21E-07	24-hour	0.1	—	—	De Minimus	—	3.15E-07	Below De Minimus	6.77E-05	6.80E-05	Below De Minimus
Lead	7439-92-1	2.13E-03	24-hour	0.5	Health	Sch. 3	Standard	B1	2.09E-03	<1%	4.98E-03	7.07E-03	1%
Lead	7439-92-1	2.13E-03	30-day	0.2	Health	Sch. 3	Standard	B1	2.52E-04	<1%	1.92E-03	2.17E-03	1%
Lead	7439-92-1	2.13E-03	24-hour	2	—	Sch. 6	URT	—	2.09E-03	Below URT	4.98E-03	7.07E-03	Below URT
Mercury	7439-97-6	6.39E-04	24-hour	2	Health	Sch. 3	Standard	B1	6.26E-04	<1%	—	6.26E-04	<1%
Naphthalene	91-20-3	1.80E-05	24-hour	22.5	Health	Sch. 3	Guideline	B1	1.77E-05	<1%	2.43E-03	2.45E-03	<1%
Naphthalene	91-20-3	1.80E-05	10-minute	50	Odour	Sch. 3	Guideline	B1	1.72E-04	<1%	9.77E-03	9.94E-03	<1%
Nickel	7440-02-0	3.30E-03	Annual	0.04	Health	Sch. 3	Standard	B1	1.04E-04	<1%	8.59E-04	9.63E-04	2%
Nickel	7440-02-0	3.71E-03	24-hour	2	—	Sch. 6	URT	—	3.64E-03	Below URT	4.49E-03	8.13E-03	Below URT
Nickel	7440-02-0	3.30E-03	Annual	0.4	—	—	AAV	—	1.04E-04	0%	2.24E-03	2.34E-03	1%
Nitrogen Oxides	10102-44-0	5.14E+00	24-hour	200	Health	Sch. 3	Standard	B1	5.04E+00	3%	5.82E+01	6.32E+01	32%
Nitrogen Oxides	10102-44-0	5.14E+00	1-hour	400	Health	Sch. 3	Standard	B1	2.97E+01	7%	6.46E+01	9.43E+01	24%
O-terphenyl	84-15-1	3.49E-06	24-hour	0.1	—	—	De Minimus	—	3.42E-06	Below De Minimus	1.35E-04	1.38E-04	Below De Minimus
Pentachlorobenzene	608-93-5	5.77E-06	24-hour	80	Health	Sch. 3	SL-JSL	B2	5.65E-06	Below B2	—	5.65E-06	Below B2
Pentachlorophenol	87-86-5	8.79E-06	24-hour	20	Health	Sch. 3	Guideline	B1	8.61E-06	<1%	8.76E-04	8.85E-04	<1%
Perylene	198-55-0	6.44E-08	24-hour	0.1	—	—	De Minimus	—	6.31E-08	Below De Minimus	1.35E-04	1.35E-04	Below De Minimus
Phenanthrene	85-01-8	4.03E-06	24-hour	0.1	—	—	De Minimus	—	3.95E-06	Below De Minimus	2.57E-03	2.57E-03	Below De Minimus
Phosphorus	7723-14-0	1.96E-03	24-hour	0.5	Health	Sch. 3	SL-MD	B2	1.92E-03	Below B2	7.00E-02	7.19E-02	Below B2
PM_{10}	N/A -3	9.55E-01	24-hour	50	Particulate	—	AAQC	—	1.05E+00	2%	—	1.05E+00	2%
$PM_{2.5}$	N/A -4	8.95E-01	24-hour	30	Particulate	—	AAQC	—	9.87E-01	3%	2.04E+01	2.14E+01	71%
Polychlorinated Biphenyls (PCB)	N/A -7	3.08E-06	24-hour	0.1	—	—	De Minimus	—	3.02E-06	Below De Minimus	4.20E-05	4.50E-05	Below De Minimus
Pyrene	129-00-0	2.14E-06	24-hour	0.1	—	—	De Minimus	—	2.10E-06	Below De Minimus	2.83E-04	2.85E-04	Below De Minimus
Selenium	7782-49-2	2.05E-05	24-hour	10	Health	Sch. 3	Guideline	B1	2.00E-05	<1%	3.02E-03	3.04E-03	<1%
Silver	7440-22-4	1.43E-04	24-hour	1	Health	Sch. 3	Standard	B1	1.40E-04	<1%	3.42E-04	4.82E-04	<1%
Sulphur Dioxide	7446-09-5	1.49E+00	24-hour	275	ealth & Vegetati	Sch. 3	Standard	B1	1.46E+00	<1%	1.93E+01	2.08E+01	8%
Sulphur Dioxide	7446-09-5	1.49E+00	1-hour	690	ealth & Vegetati	Sch. 3	Standard	B1	8.62E+00	1%	1.95E+01	2.81E+01	4%
Sulphur Dioxide	7446-09-5	1.49E+00	1-hour	100	ealth & Vegetati	Sch. 3	Standard	B1	8.62E+00	9%	1.95E+01	2.81E+01	28%

Appendix B - 140,000 TPA
Emission Summary Table

Contaminant	CAS No.	Total Facility Emission Rate [g/s]	Averaging Period	MECP POI Limit [µg/m³]	Limiting Effect	Schedule	Source	Benchmark	Maximum POI Concentration [µg/m³]	Percentage of MECP Limit [%]	Background Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Percentage of MECP Limit [%]
Sulphur Dioxide	7446-09-5	1.33E+00	Annual	10	alth & Vegetati	Sch. 3	Standard	B1	4.20E-02	<1%	6.03E+00	6.07E+00	61%
Sulphur Dioxide	7446-09-5	1.49E+00	1-hour	690	—	Sch. 6	URT	—	8.62E+00	Below URT	1.95E+01	2.81E+01	Below URT
Tetrachloroethene	127-18-4	2.42E-04	24-hour	360	Health	Sch. 3	Standard	B1	2.37E-04	<1%	4.90E-01	4.90E-01	<1%
Tetrachloroethene	127-18-4	2.42E-04	24-hour	3600	—	Sch. 6	URT	—	2.37E-04	Below URT	4.90E-01	4.90E-01	Below URT
Tetralin	119-64-2	2.12E-05	24-hour	151.5	Health	Sch. 3	SL-JSL	B2	2.08E-05	Below B2	1.35E-04	1.56E-04	Below B2
Thallium	7440-28-0	1.66E-03	24-hour	0.5	Health	Sch. 3	SL-JSL	B2	1.63E-03	Below B2	—	1.63E-03	Below B2
Tin	7440-31-5	7.50E-04	24-hour	10	Health	Sch. 3	Standard	B1	7.35E-04	<1%	3.02E-03	3.75E-03	<1%
Toluene	108-88-3	2.14E-03	24-hour	2000	Odour	Sch. 3	Guideline	B1	2.10E-03	<1%	9.47E+00	9.47E+00	<1%
Total Chromium (and compounds)	7440-47-3	9.59E-05	24-hour	0.5	Health	Sch. 3	Standard	B1	9.40E-05	<1%	2.76E-03	2.85E-03	<1%
Total Chromium (and compounds)	7440-47-3	9.59E-05	24-hour	5	—	Sch. 6	URT	—	9.40E-05	Below URT	2.76E-03	2.85E-03	Below URT
Total Particulate Matter	N/A -1	9.55E-01	24-hour	120	Particulate	Sch. 3	Guideline	B1	1.05E+00	<1%	3.54E+01	3.64E+01	30%
Trichloroethane, 1,1,1 -	71-55-6	6.08E-05	24-hour	115000	Health	Sch. 3	Standard	B1	5.96E-05	<1%	1.10E-01	1.10E-01	<1%
Trichloroethene	86-42-0	2.10E-05	24-hour	0.1	—	—	De Minimus	—	2.05E-05	Below De Minimus	5.40E-01	5.40E-01	Above De Minimus
Trichloroethylene, 1,1,2 -	79-01-6	2.10E-05	24-hour	12	Health	Sch. 3	Standard	B1	2.05E-05	<1%	—	2.05E-05	<1%
Trichloroethylene, 1,1,2 -	79-01-6	2.10E-05	24-hour	1200	—	Sch. 6	URT	—	2.05E-05	Below URT	—	2.05E-05	Below URT
Trichlorofluoromethane	75-69-4	7.34E-03	24-hour	6000	Health	Sch. 3	Guideline	B1	7.19E-03	<1%	2.15E+00	2.16E+00	<1%
Vanadium	7440-62-2	4.96E-05	24-hour	2	Health	Sch. 3	Standard	B1	4.86E-05	<1%	1.55E-03	1.60E-03	<1%
Vinyl chloride	75-01-4	1.86E-03	24-hour	1	Health	Sch. 3	Standard	B1	1.82E-03	<1%	5.88E-03	7.70E-03	<1%
Vinyl chloride	75-01-4	1.86E-03	24-hour	100	—	Sch. 6	URT	—	1.82E-03	Below URT	5.88E-03	7.70E-03	Below URT
Xylenes, m-, p- and o-	1330-20-7	2.57E-02	24-hour	730	Health	Sch. 3	Standard	B1	2.52E-02	<1%	4.83E+00	4.86E+00	<1%
Xylenes, m-, p- and o-	1330-20-7	2.57E-02	10-minute	3000	Odour	Sch. 3	Guideline	B1	2.45E-01	<1%	1.94E+01	1.96E+01	<1%
Xylenes, m-, p- and o-	1330-20-7	2.57E-02	24-hour	7300	—	Sch. 6	URT	—	2.52E-02	Below URT	4.83E+00	4.86E+00	Below URT
Zinc	7440-66-6	8.50E-03	24-hour	120	Particulate	Sch. 3	Standard	B1	8.33E-03	<1%	4.00E-02	4.83E-02	<1%

Appendix B - 160,000 TPA
Emission Summary Table

Contaminant	CAS No.	Total Facility Emission Rate [g/s]	Averaging Period	MECP POI Limit [µg/m³]	Limiting Effect	Schedule	Source	Benchmark	Maximum POI Concentration [µg/m³]	Percentage of MECP Limit [%]	Background Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Percentage of MECP Limit [%]
1 – Methylnaphthalene	90-12-0	4.39E-06	24-hour	35.5	Health	Sch. 3	SL-JSL	B2	3.78E-06	Below B2	1.30E-03	1.30E-03	Below B2
1,2,4 – Trichlorobenzene	120-82-1	2.30E-06	24-hour	400	Health	Sch. 3	Guideline	B1	1.98E-06	<1%	5.00E-02	5.00E-02	<1%
1,2,4,5-Tetrachlorobenzene	95-94-3	2.30E-06	24-hour	1	Health	Sch. 3	SL-JSL	B2	1.98E-06	Below B2	—	1.98E-06	Below B2
1,2-Dichlorobenzene	95-50-1	9.15E-05	1-hour	30500	Health	Sch. 3	Guideline	B1	5.28E-04	<1%	3.00E-02	3.05E-02	<1%
2 – Methylnaphthalene	91-57-6	2.43E-05	24-hour	0.1	—	—	De Minimus	—	2.10E-05	Below De Minimus	2.19E-03	2.21E-03	Below De Minimus
2,3,4,6-Tetrachlorophenol	58-90-2	7.78E-06	24-hour	0.75	Health	Sch. 3	SL-JSL	B2	6.70E-06	Below B2	—	6.70E-06	Below B2
2,4,6-Trichlorophenol	88-06-2	2.34E-06	24-hour	1.5	Health	Sch. 3	SL-JSL	B2	2.02E-06	Below B2	—	2.02E-06	Below B2
2,4-Dichlorophenol	120-83-2	4.61E-06	24-hour	33.5	Health	Sch. 3	SL-JSL	B2	3.97E-06	Below B2	—	3.97E-06	Below B2
Acenaphthene	83-32-9	8.32E-07	24-hour	0.1	—	—	De Minimus	—	7.17E-07	Below De Minimus	1.25E-03	1.25E-03	Below De Minimus
Acenaphthylene	208-96-8	6.49E-07	24-hour	0.1	—	—	De Minimus	—	5.59E-07	Below De Minimus	3.09E-04	3.10E-04	Below De Minimus
Acetaldehyde	75-07-0	2.31E-08	24-hour	500	Health	Sch. 3	Standard	B1	1.99E-08	<1%	1.76E+00	1.76E+00	<1%
Acetaldehyde	75-07-0	2.31E-08	1/2-hour	500	Health	Sch. 3	Standard	B1	1.60E-07	<1%	5.21E+00	5.21E+00	1%
Acetaldehyde	75-07-0	2.31E-08	24-hour	5000	—	Sch. 6	URT	—	1.99E-08	Below URT	1.76E+00	1.76E+00	Below URT
Aluminum	7429-90-5	1.78E-03	24-hour	12	Health	Sch. 3	SL-JSL	B2	1.53E-03	Below B2	2.10E-01	2.12E-01	Below B2
Ammonia	7664-41-7	4.43E-01	24-hour	100	Health	Sch. 3	Standard	B1	3.82E-01	<1%	—	3.82E-01	<1%
Ammonia	7664-41-7	4.43E-01	24-hour	1000	—	Sch. 6	URT	—	3.82E-01	Below URT	—	3.82E-01	Below URT
Anthracene	120-12-7	1.82E-07	24-hour	0.1	—	—	De Minimus	—	1.57E-07	Below De Minimus	1.63E-04	1.63E-04	Below De Minimus
Antimony	7440-36-0	1.23E-04	24-hour	25	Health	Sch. 3	Standard	B1	1.06E-04	<1%	3.02E-03	3.13E-03	<1%
Arsenic	7440-38-2	1.88E-05	24-hour	0.3	Health	Sch. 3	Guideline	B1	1.62E-05	<1%	1.81E-03	1.83E-03	<1%
Barium	7440-39-3	9.46E-05	24-hour	10	Health	Sch. 3	Guideline	B1	8.15E-05	<1%	8.18E-03	8.26E-03	<1%
Benzene	71-43-2	1.31E-03	Annual	0.45	Health	Sch. 3	Standard	B1	3.77E-05	<1%	4.00E-02	4.00E-02	9%
Benzene	71-43-2	1.39E-03	24-hour	100	—	Sch. 6	URT	—	1.19E-03	Below URT	1.18E+01	1.18E+01	Below URT
Benzene	71-43-2	1.31E-03	Annual	4.5	—	—	AAV	—	3.77E-05	<1%	4.00E-02	4.00E-02	1%
Benzo(a)anthracene	56-55-3	6.71E-08	24-hour	0.1	—	—	De Minimus	—	5.78E-08	Below De Minimus	6.77E-05	6.78E-05	Below De Minimus
Benzo(a)fluorene	238-84-6	1.24E-06	24-hour	0.1	—	—	De Minimus	—	1.07E-06	Below De Minimus	1.35E-04	1.36E-04	Below De Minimus
Benzo(a)pyrene	50-32-8	1.46E-07	Annual	0.00001	Health	Sch. 3	Standard	B1	4.18E-09	<1%	5.63E-05	5.63E-05	563%
Benzo(a)pyrene	50-32-8	1.54E-07	24-hour	0.005	—	Sch. 6	URT	—	1.33E-07	Below URT	6.77E-05	6.78E-05	Below URT
Benzo(a)pyrene	50-32-8	1.46E-07	Annual	0.0001	—	—	AAV	—	4.18E-09	<1%	5.63E-05	5.63E-05	56%
Benzo(b)fluoranthene	205-99-2	1.71E-07	24-hour	0.1	—	—	De Minimus	—	1.48E-07	Below De Minimus	1.42E-04	1.42E-04	Below De Minimus
Benzo(b)fluorene	243-17-4	8.46E-07	24-hour	0.1	—	—	De Minimus	—	7.29E-07	Below De Minimus	1.35E-04	1.36E-04	Below De Minimus
Benzo(e)pyrene	192-97-2	3.90E-07	24-hour	0.1	—	—	De Minimus	—	3.36E-07	Below De Minimus	1.35E-04	1.35E-04	Below De Minimus
Benzo(ghi)perylene	191-24-2	1.85E-06	24-hour	0.1	—	—	De Minimus	—	1.59E-06	Below De Minimus	7.07E-05	7.23E-05	Below De Minimus
Benzo(k)fluoranthene	207-08-9	4.52E-08	24-hour	0.1	—	—	De Minimus	—	3.89E-08	Below De Minimus	6.77E-05	6.77E-05	Below De Minimus
Beryllium	7440-41-7	1.49E-05	24-hour	0.01	Health	Sch. 3	Standard	B1	1.28E-05	<1%	3.02E-04	3.15E-04	3%
Biphenyl	92-51-3	1.33E-04	24-hour	175	Health	Sch. 3	SL-JSL	B2	1.15E-04	Below B2	1.36E-03	1.47E-03	Below B2
Boron	7440-42-8	6.85E-03	24-hour	120	Particulate	Sch. 3	Standard	B1	5.90E-03	<1%	8.00E-02	8.59E-02	<1%
Bromodichloromethane	75-27-4	8.05E-03	24-hour	350	Health	Sch. 3	SL-JSL	B2	6.93E-03	Below B2	2.00E-02	2.69E-02	Below B2
Bromoform	75-25-2	2.20E-03	24-hour	55	Health	Sch. 3	Guideline	B1	1.90E-03	<1%	3.00E-02	3.19E-02	<1%
Bromomethane	74-83-9	1.61E-03	24-hour	1350	Health	Sch. 3	Guideline	B1	1.39E-03	<1%	9.00E-02	9.14E-02	<1%
Cadmium	7440-43-9	3.13E-04	24-hour	0.025	Health	Sch. 3	Standard	B1	2.70E-04	1%	6.04E-04	8.74E-04	3%
Cadmium	7440-43-9	3.13E-04	24-hour	0.25	—	Sch. 6	URT	—	2.70E-04	Below URT	6.04E-04	8.74E-04	Below URT
Carbon Monoxide	630-08-0	2.01E+00	1/2-hour	6000	Health	Sch. 3	Standard	B1	1.39E+01	<1%	1.26E+03	1.27E+03	21%
Carbon tetrachloride	56-23-5	1.37E-05	24-hour	2.4	Health	Sch. 3	Standard	B1	1.18E-05	<1%	7.40E-01	7.40E-01	31%
Carbon tetrachloride	56-23-5	1.37E-05	24-hour	24	—	Sch. 6	URT	—	1.18E-05	Below URT	7.40E-01	7.40E-01	Below URT
Chloroform	67-66-3	2.28E-05	24-hour	1	Health	Sch. 3	Standard	B1	1.97E-05	<1%	2.30E-01	2.30E-01	23%
Chloroform	67-66-3	2.28E-05	24-hour	100	—	Sch. 6	URT	—	1.97E-05	Below URT	2.30E-01	2.30E-01	Below URT
Chromium (hexavalent)	18540-29-9	1.35E-05	Annual	0.00014	Health	Sch. 3	Standard	B1	3.89E-07	<1%	—	3.89E-07	<1%
Chromium (hexavalent)	18540-29-9	1.43E-05	24-hour	0.07	—	Sch. 6	URT	—	1.23E-05	Below URT	—	1.23E-05	Below URT

Appendix B - 160,000 TPA
Emission Summary Table

Contaminant	CAS No.	Total Facility Emission Rate [g/s]	Averaging Period	MECP POI Limit [µg/m³]	Limiting Effect	Schedule	Source	Benchmark	Maximum POI Concentration [µg/m³]	Percentage of MECP Limit [%]	Background Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Percentage of MECP Limit [%]
Chromium (hexavalent)	18540-29-9	1.35E-05	Annual	0.0014	—	—	AAV	—	3.89E-07	0%	—	3.89E-07	0%
Chrysene	218-01-9	1.69E-07	24-hour	0.1	—	—	De Minimus	—	1.45E-07	Below De Minimus	9.64E-05	9.65E-05	Below De Minimus
Cobalt	7440-48-4	2.59E-04	24-hour	0.1	Health	Sch. 3	Guideline	B1	2.23E-04	<1%	6.04E-04	8.27E-04	<1%
Dibenzo(a,c)anthracene	215-58-7	1.20E-06	24-hour	0.1	—	—	De Minimus	—	1.03E-06	Below De Minimus	—	1.03E-06	Below De Minimus
Dibenzo(a,h)anthracene	53-70-3	5.41E-08	24-hour	0.1	—	—	De Minimus	—	4.66E-08	Below De Minimus	6.77E-05	6.77E-05	Below De Minimus
Dichlorodifluoromethane	75-71-8	3.90E-03	24-hour	500000	Health	Sch. 3	Guideline	B1	3.36E-03	<1%	3.23E+00	3.23E+00	<1%
Dichloroethene, 1,1 -	75-34-3	2.53E-05	24-hour	165	Health	Sch. 3	Standard	B1	2.18E-05	<1%	1.00E-02	1.00E-02	<1%
Dichloroethene, 1,1 -	75-34-3	2.53E-05	24-hour	1650	—	Sch. 6	URT	—	2.18E-05	Below URT	1.00E-02	1.00E-02	Below URT
Dichloromethane	75-09-2	7.88E-03	24-hour	220	Health	Sch. 3	Standard	B1	6.78E-03	<1%	1.27E+00	1.28E+00	<1%
Dichloromethane	75-09-2	7.88E-03	24-hour	22000	—	Sch. 6	URT	—	6.78E-03	Below URT	1.27E+00	1.28E+00	Below URT
Dioxins, Furans and Dioxin- like PCBs	N/A -6	0.0027 µg TEQ/s	24-hour	0.1 pg TEQ/m³	Health	Sch. 3	Guideline	B1	0.0023 pg TEQ/m³	2%	0.0237 pg TEQ/m³	0.026 pg TEQ/m³	26%
Ethylbenzene	100-41-4	4.64E-05	24-hour	1000	Health	Sch. 3	Standard	B1	3.99E-05	<1%	1.24E+00	1.24E+00	<1%
Ethylbenzene	100-41-4	4.64E-05	10-minute	1900	Odour	Sch. 3	Guideline	B1	4.42E-04	<1%	5.00E+00	5.00E+00	<1%
Ethylbenzene	100-41-4	4.64E-05	24-hour	10000	—	Sch. 6	URT	—	3.99E-05	Below URT	1.24E+00	1.24E+00	Below URT
Ethylene Dibromide	106-93-4	1.29E-05	24-hour	3	Health	Sch. 3	Guideline	B1	1.11E-05	<1%	5.20E-03	5.21E-03	<1%
Fluoranthene	206-44-0	1.86E-06	24-hour	0.1	—	—	De Minimus	—	1.60E-06	Below De Minimus	6.01E-04	6.03E-04	Below De Minimus
Fluorine	86-73-7	1.40E-06	24-hour	0.1	—	—	De Minimus	—	1.21E-06	Below De Minimus	—	1.21E-06	Below De Minimus
Formaldehyde	50-00-0	2.13E-03	24-hour	65	Health	Sch. 3	Standard	B1	1.83E-03	<1%	3.38E+00	3.38E+00	5%
Hexachlorobenzene	118-74-1	2.30E-06	24-hour	0.011	Health	Sch. 3	SL-JSL	B2	1.98E-06	Below B2	6.25E-05	6.45E-05	Below B2
Hydrogen Chloride	7647-01-0	4.03E-01	24-hour	20	Health	Sch. 3	Standard	B1	3.47E-01	2%	—	3.47E-01	2%
Hydrogen Chloride	7647-01-0	4.03E-01	24-hour	200	—	Sch. 6	URT	—	3.47E-01	Below URT	—	3.47E-01	Below URT
Hydrogen Fluoride	7664-39-3	4.03E-02	24-hour	1.72	Vegetation	Sch. 3	Standard	B1	3.47E-02	2%	—	3.47E-02	2%
Hydrogen Fluoride	7664-39-3	4.03E-02	30-day	0.69	Vegetation	Sch. 3	Standard	B1	4.32E-03	<1%	—	4.32E-03	<1%
Indeno(1,2,3 – cd)pyrene	193-39-5	3.37E-07	24-hour	0.1	—	—	De Minimus	—	2.91E-07	Below De Minimus	6.77E-05	6.80E-05	Below De Minimus
Lead	7439-92-1	2.24E-03	24-hour	0.5	Health	Sch. 3	Standard	B1	1.93E-03	<1%	4.98E-03	6.91E-03	1%
Lead	7439-92-1	2.24E-03	30-day	0.2	Health	Sch. 3	Standard	B1	2.40E-04	<1%	1.92E-03	2.16E-03	1%
Lead	7439-92-1	2.24E-03	24-hour	2	—	Sch. 6	URT	—	1.93E-03	Below URT	4.98E-03	6.91E-03	Below URT
Mercury	7439-97-6	6.71E-04	24-hour	2	Health	Sch. 3	Standard	B1	5.78E-04	<1%	—	5.78E-04	<1%
Naphthalene	91-20-3	1.89E-05	24-hour	22.5	Health	Sch. 3	Guideline	B1	1.63E-05	<1%	2.43E-03	2.45E-03	<1%
Naphthalene	91-20-3	1.89E-05	10-minute	50	Odour	Sch. 3	Guideline	B1	1.80E-04	<1%	9.77E-03	9.95E-03	<1%
Nickel	7440-02-0	3.69E-03	Annual	0.04	Health	Sch. 3	Standard	B1	1.06E-04	<1%	8.59E-04	9.65E-04	2%
Nickel	7440-02-0	3.90E-03	24-hour	2	—	Sch. 6	URT	—	3.36E-03	Below URT	4.49E-03	7.85E-03	Below URT
Nickel	7440-02-0	3.69E-03	Annual	0.4	—	—	AAV	—	1.06E-04	<1%	2.24E-03	2.35E-03	1%
Nitrogen Oxides	10102-44-0	5.41E+00	24-hour	200	Health	Sch. 3	Standard	B1	4.66E+00	2%	5.82E+01	6.29E+01	31%
Nitrogen Oxides	10102-44-0	5.41E+00	1-hour	400	Health	Sch. 3	Standard	B1	3.13E+01	8%	6.46E+01	9.59E+01	24%
O-terphenyl	84-15-1	3.66E-06	24-hour	0.1	—	—	De Minimus	—	3.15E-06	Below De Minimus	1.35E-04	1.38E-04	Below De Minimus
Pentachlorobenzene	608-93-5	6.05E-06	24-hour	80	Health	Sch. 3	SL-JSL	B2	5.21E-06	Below B2	—	5.21E-06	Below B2
Pentachlorophenol	87-86-5	9.23E-06	24-hour	20	Health	Sch. 3	Guideline	B1	7.95E-06	<1%	8.76E-04	8.84E-04	<1%
Perylene	198-55-0	6.76E-08	24-hour	0.1	—	—	De Minimus	—	5.82E-08	Below De Minimus	1.35E-04	1.35E-04	Below De Minimus
Phenanthrene	85-01-8	4.23E-06	24-hour	0.1	—	—	De Minimus	—	3.65E-06	Below De Minimus	2.57E-03	2.57E-03	Below De Minimus
Phosphorus	7723-14-0	2.06E-03	24-hour	0.5	Health	Sch. 3	SL-MD	B2	1.77E-03	Below B2	7.00E-02	7.18E-02	Below B2
PM_{10}	N/A -3	1.00E+00	24-hour	50	Particulate	—	AAQC	—	9.74E-01	2%	—	9.74E-01	2%
$PM_{2.5}$	N/A -4	9.40E-01	24-hour	30	Particulate	—	AAQC	—	9.20E-01	3%	2.04E+01	2.13E+01	71%
Polychlorinated Biphenyls (PCB)	N/A -7	3.23E-06	24-hour	0.1	—	—	De Minimus	—	2.78E-06	Below De Minimus	4.20E-05	4.48E-05	Below De Minimus
Pyrene	129-00-0	2.25E-06	24-hour	0.1	—	—	De Minimus	—	1.93E-06	Below De Minimus	2.83E-04	2.85E-04	Below De Minimus
Selenium	7782-49-2	2.15E-05	24-hour	10	Health	Sch. 3	Guideline	B1	1.85E-05	<1%	3.02E-03	3.04E-03	<1%
Silver	7440-22-4	1.50E-04	24-hour	1	Health	Sch. 3	Standard	B1	1.29E-04	<1%	3.42E-04	4.71E-04	<1%
Sulphur Dioxide	7446-09-5	1.57E+00	24-hour	275	ealth & Vegetati	Sch. 3	Standard	B1	1.35E+00	<1%	1.93E+01	2.07E+01	8%

Appendix B - 160,000 TPA
Emission Summary Table

Contaminant	CAS No.	Total Facility Emission Rate [g/s]	Averaging Period	MECP POI Limit [µg/m³]	Limiting Effect	Schedule	Source	Benchmark	Maximum POI Concentration [µg/m³]	Percentage of MECP Limit [%]	Background Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Percentage of MECP Limit [%]
Sulphur Dioxide	7446-09-5	1.57E+00	1-hour	690	ealth & Vegetati	Sch. 3	Standard	B1	9.05E+00	1%	1.95E+01	2.86E+01	4%
Sulphur Dioxide	7446-09-5	1.57E+00	1-hour	100	ealth & Vegetati	Sch. 3	Standard	B1	9.05E+00	9%	1.95E+01	2.86E+01	29%
Sulphur Dioxide	7446-09-5	1.48E+00	Annual	10	ealth & Vegetati	Sch. 3	Standard	B1	4.26E-02	<1%	6.03E+00	6.07E+00	61%
Sulphur Dioxide	7446-09-5	1.57E+00	1-hour	690	—	Sch. 6	URT	—	9.05E+00	Below URT	1.95E+01	2.86E+01	Below URT
Tetrachloroethene	127-18-4	2.54E-04	24-hour	360	Health	Sch. 3	Standard	B1	2.19E-04	<1%	4.90E-01	4.90E-01	<1%
Tetrachloroethene	127-18-4	2.54E-04	24-hour	3600	—	Sch. 6	URT	—	2.19E-04	Below URT	4.90E-01	4.90E-01	Below URT
Tetralin	119-64-2	2.23E-05	24-hour	151.5	Health	Sch. 3	SL-JSL	B2	1.92E-05	Below B2	1.35E-04	1.54E-04	Below B2
Thallium	7440-28-0	1.75E-03	24-hour	0.5	Health	Sch. 3	SL-JSL	B2	1.50E-03	Below B2	—	1.50E-03	Below B2
Tin	7440-31-5	7.87E-04	24-hour	10	Health	Sch. 3	Standard	B1	6.78E-04	<1%	3.02E-03	3.70E-03	<1%
Toluene	108-88-3	2.25E-03	24-hour	2000	Odour	Sch. 3	Guideline	B1	1.94E-03	<1%	9.47E+00	9.47E+00	<1%
Total Chromium (and compounds)	7440-47-3	1.01E-04	24-hour	0.5	Health	Sch. 3	Standard	B1	8.67E-05	<1%	2.76E-03	2.85E-03	<1%
Total Chromium (and compounds)	7440-47-3	1.01E-04	24-hour	5	—	Sch. 6	URT	—	8.67E-05	Below URT	2.76E-03	2.85E-03	Below URT
Total Particulate Matter	N/A -1	1.00E+00	24-hour	120	Particulate	Sch. 3	Guideline	B1	9.74E-01	<1%	3.54E+01	3.64E+01	30%
Trichloroethane, 1,1,1 -	71-55-6	6.39E-05	24-hour	115000	Health	Sch. 3	Standard	B1	5.50E-05	<1%	1.10E-01	1.10E-01	<1%
Trichloroethene	86-42-0	2.20E-05	24-hour	0.1	—	—	De Minimus	—	1.89E-05	Below De Minimus	5.40E-01	5.40E-01	Above De Minimus
Trichloroethylene, 1,1,2 -	79-01-6	2.20E-05	24-hour	12	Health	Sch. 3	Standard	B1	1.89E-05	<1%	—	1.89E-05	<1%
Trichloroethylene, 1,1,2 -	79-01-6	2.20E-05	24-hour	1200	—	Sch. 6	URT	—	1.89E-05	Below URT	—	1.89E-05	Below URT
Trichlorofluoromethane	75-69-4	7.71E-03	24-hour	6000	Health	Sch. 3	Guideline	B1	6.64E-03	<1%	2.15E+00	2.16E+00	<1%
Vanadium	7440-62-2	5.20E-05	24-hour	2	Health	Sch. 3	Standard	B1	4.48E-05	<1%	1.55E-03	1.59E-03	<1%
Vinyl chloride	75-01-4	1.95E-03	24-hour	1	Health	Sch. 3	Standard	B1	1.68E-03	<1%	5.88E-03	7.56E-03	<1%
Vinyl chloride	75-01-4	1.95E-03	24-hour	100	—	Sch. 6	URT	—	1.68E-03	Below URT	5.88E-03	7.56E-03	Below URT
Xylenes, m-, p- and o-	1330-20-7	2.70E-02	24-hour	730	Health	Sch. 3	Standard	B1	2.33E-02	<1%	4.83E+00	4.85E+00	<1%
Xylenes, m-, p- and o-	1330-20-7	2.70E-02	10-minute	3000	Odour	Sch. 3	Guideline	B1	2.57E-01	<1%	1.94E+01	1.97E+01	<1%
Xylenes, m-, p- and o-	1330-20-7	2.70E-02	24-hour	7300	—	Sch. 6	URT	—	2.33E-02	Below URT	4.83E+00	4.85E+00	Below URT
Zinc	7440-66-6	8.93E-03	24-hour	120	Particulate	Sch. 3	Standard	B1	7.69E-03	<1%	4.00E-02	4.77E-02	<1%

APPENDIX C

Comparison of Predicted Concentrations

Appendix C
Comparion of Predicted Concentrations

Contaminant	CAS No.	Averaging Period	Background Concentration [µg/m³]	140,000 TPA			160,000 TPA			Percentage Change of Maximum POI Concentration [%]	Percentage Change of Maximum POI Concentration (Including Background) [%]
				Total Facility Emission Rate [g/s]	Maximum POI Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Total Facility Emission Rate [g/s]	Maximum POI Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]		
1 – Methylnaphthalene	90-12-0	24-hour	1.30E-03	4.18E-06	4.10E-06	1.30E-03	4.39E-06	3.78E-06	1.30E-03	-8%	0%
1,2,4 – Trichlorobenzene	120-82-1	24-hour	5.00E-02	2.19E-06	2.15E-06	5.00E-02	2.30E-06	1.98E-06	5.00E-02	-8%	0%
1,2,4,5-Tetrachlorobenzene	95-94-3	24-hour	—	2.19E-06	2.15E-06	2.15E-06	2.30E-06	1.98E-06	1.98E-06	-8%	—
1,2-Dichlorobenzene	95-50-1	1-hour	3.00E-02	8.72E-05	5.03E-04	3.05E-02	9.15E-05	5.28E-04	3.05E-02	5%	0%
2 – Methylnaphthalene	91-57-6	24-hour	2.19E-03	2.32E-05	2.27E-05	2.21E-03	2.43E-05	2.10E-05	2.21E-03	-8%	0%
2,3,4,6-Tetrachlorophenol	58-90-2	24-hour	—	7.41E-06	7.26E-06	7.26E-06	7.78E-06	6.70E-06	6.70E-06	-8%	—
2,4,6-Trichlorophenol	88-06-2	24-hour	—	2.23E-06	2.19E-06	2.19E-06	2.34E-06	2.02E-06	2.02E-06	-8%	—
2,4-Dichlorophenol	120-83-2	24-hour	—	4.39E-06	4.30E-06	4.30E-06	4.61E-06	3.97E-06	3.97E-06	-8%	—
Acenaphthene	83-32-9	24-hour	1.25E-03	7.93E-07	7.77E-07	1.25E-03	8.32E-07	7.17E-07	1.25E-03	-8%	0%
Acenaphthylene	208-96-8	24-hour	3.09E-04	6.18E-07	6.06E-07	3.10E-04	6.49E-07	5.59E-07	3.10E-04	-8%	0%
Acetaldehyde	75-07-0	24-hour	1.76E+00	2.15E-08	2.11E-08	1.76E+00	2.31E-08	1.99E-08	1.76E+00	-6%	0%
Acetaldehyde	75-07-0	1/2-hour	5.21E+00	2.15E-08	1.49E-07	5.21E+00	2.31E-08	1.60E-07	5.21E+00	7%	0%
Acetaldehyde	75-07-0	24-hour	1.76E+00	2.15E-08	2.11E-08	1.76E+00	2.31E-08	1.99E-08	1.76E+00	-6%	0%
Aluminum	7429-90-5	24-hour	2.10E-01	1.69E-03	1.66E-03	2.12E-01	1.78E-03	1.53E-03	2.12E-01	-8%	0%
Ammonia	7664-41-7	24-hour	—	4.22E-01	4.13E-01	4.13E-01	4.43E-01	3.82E-01	3.82E-01	-8%	—
Ammonia	7664-41-7	24-hour	—	4.22E-01	4.13E-01	4.13E-01	4.43E-01	3.82E-01	3.82E-01	-8%	—
Anthracene	120-12-7	24-hour	1.63E-04	1.73E-07	1.70E-07	1.63E-04	1.82E-07	1.57E-07	1.63E-04	-8%	0%
Antimony	7440-36-0	24-hour	3.02E-03	1.17E-04	1.14E-04	3.13E-03	1.23E-04	1.06E-04	3.13E-03	-8%	0%
Arsenic	7440-38-2	24-hour	1.81E-03	1.79E-05	1.75E-05	1.83E-03	1.88E-05	1.62E-05	1.83E-03	-8%	0%
Barium	7440-39-3	24-hour	8.18E-03	9.01E-05	8.83E-05	8.27E-03	9.46E-05	8.15E-05	8.26E-03	-8%	0%
Benzene	71-43-2	Annual	4.00E-02	1.17E-03	3.71E-05	4.00E-02	1.31E-03	3.77E-05	4.00E-02	2%	0%
Benzene	71-43-2	24-hour	1.18E+01	1.32E-03	1.29E-03	1.18E+01	1.39E-03	1.19E-03	1.18E+01	-8%	0%
Benzene	71-43-2	Annual	4.00E-02	1.17E-03	3.71E-05	4.00E-02	1.31E-03	3.77E-05	4.00E-02	2%	0%
Benzo(a)anthracene	56-55-3	24-hour	6.77E-05	6.39E-08	6.26E-08	6.78E-05	6.71E-08	5.78E-08	6.78E-05	-8%	0%
Benzo(a)fluorene	238-84-6	24-hour	1.35E-04	1.18E-06	1.15E-06	1.36E-04	1.24E-06	1.07E-06	1.36E-04	-8%	0%
Benzo(a)pyrene	50-32-8	Annual	5.63E-05	1.30E-07	4.12E-09	5.63E-05	1.46E-07	4.18E-09	5.63E-05	2%	0%
Benzo(a)pyrene	50-32-8	24-hour	6.77E-05	1.47E-07	1.44E-07	6.78E-05	1.54E-07	1.33E-07	6.78E-05	-8%	0%
Benzo(a)pyrene	50-32-8	Annual	5.63E-05	1.30E-07	4.12E-09	5.63E-05	1.46E-07	4.18E-09	5.63E-05	2%	0%
Benzo(b)fluoranthene	205-99-2	24-hour	1.42E-04	1.63E-07	1.60E-07	1.42E-04	1.71E-07	1.48E-07	1.42E-04	-8%	0%
Benzo(b)fluorene	243-17-4	24-hour	1.35E-04	8.06E-07	7.90E-07	1.36E-04	8.46E-07	7.29E-07	1.36E-04	-8%	0%
Benzo(e)pyrene	192-97-2	24-hour	1.35E-04	3.71E-07	3.64E-07	1.35E-04	3.90E-07	3.36E-07	1.35E-04	-8%	0%
Benzo(ghi)perylene	191-24-2	24-hour	7.07E-05	1.76E-06	1.72E-06	7.24E-05	1.85E-06	1.59E-06	7.23E-05	-8%	0%
Benzo(k)fluoranthene	207-08-9	24-hour	6.77E-05	4.30E-08	4.22E-08	6.77E-05	4.52E-08	3.89E-08	6.77E-05	-8%	0%
Beryllium	7440-41-7	24-hour	3.02E-04	1.42E-05	1.39E-05	3.16E-04	1.49E-05	1.28E-05	3.15E-04	-8%	0%
Biphenyl	92-51-3	24-hour	1.36E-03	1.27E-04	1.25E-04	1.48E-03	1.33E-04	1.15E-04	1.47E-03	-8%	-1%
Boron	7440-42-8	24-hour	8.00E-02	6.52E-03	6.39E-03	8.64E-02	6.85E-03	5.90E-03	8.59E-02	-8%	-1%
Bromodichloromethane	75-27-4	24-hour	2.00E-02	7.50E-03	7.35E-03	2.73E-02	8.05E-03	6.93E-03	2.69E-02	-6%	-2%
Bromoform	75-25-2	24-hour	3.00E-02	2.05E-03	2.01E-03	3.20E-02	2.20E-03	1.90E-03	3.19E-02	-6%	0%
Bromomethane	74-83-9	24-hour	9.00E-02	1.53E-03	1.50E-03	9.15E-02	1.61E-03	1.39E-03	9.14E-02	-8%	0%
Cadmium	7440-43-9	24-hour	6.04E-04	2.98E-04	2.92E-04	8.96E-04	3.13E-04	2.70E-04	8.74E-04	-8%	-3%
Cadmium	7440-43-9	24-hour	6.04E-04	2.98E-04	2.92E-04	8.96E-04	3.13E-04	2.70E-04	8.74E-04	-8%	-3%
Carbon Monoxide	630-08-0	1/2-hour	1.26E+03	1.92E+00	1.33E+01	1.27E+03	2.01E+00	1.39E+01	1.27E+03	5%	0%

Appendix C
Comparion of Predicted Concentrations

Contaminant	CAS No.	Averaging Period	Background Concentration [µg/m³]	140,000 TPA			160,000 TPA			Percentage Change of Maximum POI Concentration [%]	Percentage Change of Maximum POI Concentration (Including Background) [%]
				Total Facility Emission Rate [g/s]	Maximum POI Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Total Facility Emission Rate [g/s]	Maximum POI Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]		
Carbon tetrachloride	56-23-5	24-hour	7.40E-01	1.28E-05	1.25E-05	7.40E-01	1.37E-05	1.18E-05	7.40E-01	-6%	0%
Carbon tetrachloride	56-23-5	24-hour	7.40E-01	1.28E-05	1.25E-05	7.40E-01	1.37E-05	1.18E-05	7.40E-01	-6%	0%
Chloroform	67-66-3	24-hour	2.30E-01	2.17E-05	2.13E-05	2.30E-01	2.28E-05	1.97E-05	2.30E-01	-8%	0%
Chloroform	67-66-3	24-hour	2.30E-01	2.17E-05	2.13E-05	2.30E-01	2.28E-05	1.97E-05	2.30E-01	-8%	0%
Chromium (hexavalent)	18540-29-9	Annual	—	1.21E-05	3.83E-07	3.83E-07	1.35E-05	3.89E-07	3.89E-07	2%	—
Chromium (hexavalent)	18540-29-9	24-hour	—	1.36E-05	1.34E-05	1.34E-05	1.43E-05	1.23E-05	1.23E-05	-8%	—
Chromium (hexavalent)	18540-29-9	Annual	—	1.21E-05	3.83E-07	3.83E-07	1.35E-05	3.89E-07	3.89E-07	2%	—
Chrysene	218-01-9	24-hour	9.64E-05	1.61E-07	1.57E-07	9.66E-05	1.69E-07	1.45E-07	9.65E-05	-8%	0%
Cobalt	7440-48-4	24-hour	6.04E-04	2.47E-04	2.42E-04	8.46E-04	2.59E-04	2.23E-04	8.27E-04	-8%	-2%
Dibenzo(a,c)anthracene	215-58-7	24-hour	—	1.14E-06	1.12E-06	1.12E-06	1.20E-06	1.03E-06	1.03E-06	-8%	—
Dibenzo(a,h)anthracene	53-70-3	24-hour	6.77E-05	5.16E-08	5.05E-08	6.78E-05	5.41E-08	4.66E-08	6.77E-05	-8%	0%
Dichlorodifluoromethane	75-71-8	24-hour	3.23E+00	3.71E-03	3.64E-03	3.23E+00	3.90E-03	3.36E-03	3.23E+00	-8%	0%
Dichloroethene, 1,1 -	75-34-3	24-hour	1.00E-02	2.41E-05	2.36E-05	1.00E-02	2.53E-05	2.18E-05	1.00E-02	-8%	0%
Dichloroethene, 1,1 -	75-34-3	24-hour	1.00E-02	2.41E-05	2.36E-05	1.00E-02	2.53E-05	2.18E-05	1.00E-02	-8%	0%
Dichloromethane	75-09-2	24-hour	1.27E+00	7.50E-03	7.35E-03	1.28E+00	7.88E-03	6.78E-03	1.28E+00	-8%	0%
Dichloromethane	75-09-2	24-hour	1.27E+00	7.50E-03	7.35E-03	1.28E+00	7.88E-03	6.78E-03	1.28E+00	-8%	0%
Dioxins, Furans and Dioxin- like PCBs	N/A -6	24-hour	0.0237 pg TEQ/m³	0.0026 µg TEQ/s	0.0025 µg TEQ/s	0.0262 pg TEQ/m³	0.0027 µg TEQ/s	0.0023 µg TEQ/s	0.026 pg TEQ/m³	-8%	-1%
Ethylbenzene	100-41-4	24-hour	1.24E+00	4.42E-05	4.33E-05	1.24E+00	4.64E-05	3.99E-05	1.24E+00	-8%	0%
Ethylbenzene	100-41-4	10-minute	5.00E+00	4.42E-05	4.21E-04	5.00E+00	4.64E-05	4.42E-04	5.00E+00	5%	0%
Ethylbenzene	100-41-4	24-hour	1.24E+00	4.42E-05	4.33E-05	1.24E+00	4.64E-05	3.99E-05	1.24E+00	-8%	0%
Ethylene Dibromide	106-93-4	24-hour	5.20E-03	1.20E-05	1.18E-05	5.21E-03	1.29E-05	1.11E-05	5.21E-03	-6%	0%
Fluoranthene	206-44-0	24-hour	6.01E-04	1.77E-06	1.74E-06	6.03E-04	1.86E-06	1.60E-06	6.03E-04	-8%	0%
Fluorine	86-73-7	24-hour	—	1.33E-06	1.31E-06	1.31E-06	1.40E-06	1.21E-06	1.21E-06	-8%	—
Formaldehyde	50-00-0	24-hour	3.38E+00	2.02E-03	1.98E-03	3.38E+00	2.13E-03	1.83E-03	3.38E+00	-8%	0%
Hexachlorobenzene	118-74-1	24-hour	6.25E-05	2.19E-06	2.15E-06	6.47E-05	2.30E-06	1.98E-06	6.45E-05	-8%	0%
Hydrogen Chloride	7647-01-0	24-hour	—	3.84E-01	3.76E-01	3.76E-01	4.03E-01	3.47E-01	3.47E-01	-8%	—
Hydrogen Chloride	7647-01-0	24-hour	—	3.84E-01	3.76E-01	3.76E-01	4.03E-01	3.47E-01	3.47E-01	-8%	—
Hydrogen Fluoride	7664-39-3	24-hour	—	3.84E-02	3.76E-02	3.76E-02	4.03E-02	3.47E-02	3.47E-02	-8%	—
Hydrogen Fluoride	7664-39-3	30-day	—	3.84E-02	4.53E-03	4.53E-03	4.03E-02	4.32E-03	4.32E-03	-5%	—
Indeno(1,2,3 – cd)pyrene	193-39-5	24-hour	6.77E-05	3.21E-07	3.15E-07	6.80E-05	3.37E-07	2.91E-07	6.80E-05	-8%	0%
Lead	7439-92-1	24-hour	4.98E-03	2.13E-03	2.09E-03	7.07E-03	2.24E-03	1.93E-03	6.91E-03	-8%	-2%
Lead	7439-92-1	30-day	1.92E-03	2.13E-03	2.52E-04	2.17E-03	2.24E-03	2.40E-04	2.16E-03	-5%	-1%
Lead	7439-92-1	24-hour	4.98E-03	2.13E-03	2.09E-03	7.07E-03	2.24E-03	1.93E-03	6.91E-03	-8%	-2%
Mercury	7439-97-6	24-hour	—	6.39E-04	6.26E-04	6.26E-04	6.71E-04	5.78E-04	5.78E-04	-8%	—
Naphthalene	91-20-3	24-hour	2.43E-03	1.80E-05	1.77E-05	2.45E-03	1.89E-05	1.63E-05	2.45E-03	-8%	0%
Naphthalene	91-20-3	10-minute	9.77E-03	1.80E-05	1.72E-04	9.94E-03	1.89E-05	1.80E-04	9.95E-03	5%	0%
Nickel	7440-02-0	Annual	8.59E-04	3.30E-03	1.04E-04	9.63E-04	3.69E-03	1.06E-04	9.65E-04	2%	0%
Nickel	7440-02-0	24-hour	4.49E-03	3.71E-03	3.64E-03	8.13E-03	3.90E-03	3.36E-03	7.85E-03	-8%	-3%
Nickel	7440-02-0	Annual	2.24E-03	3.30E-03	1.04E-04	2.34E-03	3.69E-03	1.06E-04	2.35E-03	2%	0%
Nitrogen Oxides	10102-44-0	24-hour	5.82E+01	5.14E+00	5.04E+00	6.32E+01	5.41E+00	4.66E+00	6.29E+01	-7%	-1%
Nitrogen Oxides	10102-44-0	1-hour	6.46E+01	5.14E+00	2.97E+01	9.43E+01	5.41E+00	3.13E+01	9.59E+01	5%	2%

Appendix C
Comparion of Predicted Concentrations

Contaminant	CAS No.	Averaging Period	Background Concentration [µg/m³]	140,000 TPA			160,000 TPA			Percentage Change of Maximum POI Concentration [%]	Percentage Change of Maximum POI Concentration (Including Background) [%]
				Total Facility Emission Rate [g/s]	Maximum POI Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]	Total Facility Emission Rate [g/s]	Maximum POI Concentration [µg/m³]	Maximum POI Concentration (Including Background) [µg/m³]		
O-terphenyl	84-15-1	24-hour	1.35E-04	3.49E-06	3.42E-06	1.38E-04	3.66E-06	3.15E-06	1.38E-04	-8%	0%
Pentachlorobenzene	608-93-5	24-hour	—	5.77E-06	5.65E-06	5.65E-06	6.05E-06	5.21E-06	5.21E-06	-8%	—
Pentachlorophenol	87-86-5	24-hour	8.76E-04	8.79E-06	8.61E-06	8.85E-04	9.23E-06	7.95E-06	8.84E-04	-8%	0%
Perylene	198-55-0	24-hour	1.35E-04	6.44E-08	6.31E-08	1.35E-04	6.76E-08	5.82E-08	1.35E-04	-8%	0%
Phenanthrene	85-01-8	24-hour	2.57E-03	4.03E-06	3.95E-06	2.57E-03	4.23E-06	3.65E-06	2.57E-03	-8%	0%
Phosphorus	7723-14-0	24-hour	7.00E-02	1.96E-03	1.92E-03	7.19E-02	2.06E-03	1.77E-03	7.18E-02	-8%	0%
PM_{10}	N/A -3	24-hour	—	9.55E-01	1.05E+00	1.05E+00	1.00E+00	9.74E-01	9.74E-01	-7%	—
$PM_{2.5}$	N/A -4	24-hour	2.04E+01	8.95E-01	9.87E-01	2.14E+01	9.40E-01	9.20E-01	2.13E+01	-7%	0%
Polychlorinated Biphenyls (PCB)	N/A -7	24-hour	4.20E-05	3.08E-06	3.02E-06	4.50E-05	3.23E-06	2.78E-06	4.48E-05	-8%	-1%
Pyrene	129-00-0	24-hour	2.83E-04	2.14E-06	2.10E-06	2.85E-04	2.25E-06	1.93E-06	2.85E-04	-8%	0%
Selenium	7782-49-2	24-hour	3.02E-03	2.05E-05	2.00E-05	3.04E-03	2.15E-05	1.85E-05	3.04E-03	-8%	0%
Silver	7440-22-4	24-hour	3.42E-04	1.43E-04	1.40E-04	4.82E-04	1.50E-04	1.29E-04	4.71E-04	-8%	-2%
Sulphur Dioxide	7446-09-5	24-hour	1.93E+01	1.49E+00	1.46E+00	2.08E+01	1.57E+00	1.35E+00	2.07E+01	-8%	-1%
Sulphur Dioxide	7446-09-5	1-hour	1.95E+01	1.49E+00	8.62E+00	2.81E+01	1.57E+00	9.05E+00	2.86E+01	5%	2%
Sulphur Dioxide	7446-09-5	1-hour	1.95E+01	1.49E+00	8.62E+00	2.81E+01	1.57E+00	9.05E+00	2.86E+01	5%	2%
Sulphur Dioxide	7446-09-5	Annual	6.03E+00	1.33E+00	4.20E-02	6.07E+00	1.48E+00	4.26E-02	6.07E+00	2%	0%
Sulphur Dioxide	7446-09-5	1-hour	1.95E+01	1.49E+00	8.62E+00	2.81E+01	1.57E+00	9.05E+00	2.86E+01	5%	2%
Tetrachloroethene	127-18-4	24-hour	4.90E-01	2.42E-04	2.37E-04	4.90E-01	2.54E-04	2.19E-04	4.90E-01	-8%	0%
Tetrachloroethene	127-18-4	24-hour	4.90E-01	2.42E-04	2.37E-04	4.90E-01	2.54E-04	2.19E-04	4.90E-01	-8%	0%
Tetralin	119-64-2	24-hour	1.35E-04	2.12E-05	2.08E-05	1.56E-04	2.23E-05	1.92E-05	1.54E-04	-8%	-1%
Thallium	7440-28-0	24-hour	—	1.66E-03	1.63E-03	1.63E-03	1.75E-03	1.50E-03	1.50E-03	-8%	—
Tin	7440-31-5	24-hour	3.02E-03	7.50E-04	7.35E-04	3.75E-03	7.87E-04	6.78E-04	3.70E-03	-8%	-2%
Toluene	108-88-3	24-hour	9.47E+00	2.14E-03	2.10E-03	9.47E+00	2.25E-03	1.94E-03	9.47E+00	-8%	0%
Total Chromium (and compounds)	7440-47-3	24-hour	2.76E-03	9.59E-05	9.40E-05	2.85E-03	1.01E-04	8.67E-05	2.85E-03	-8%	0%
Total Chromium (and compounds)	7440-47-3	24-hour	2.76E-03	9.59E-05	9.40E-05	2.85E-03	1.01E-04	8.67E-05	2.85E-03	-8%	0%
Total Particulate Matter	N/A -1	24-hour	3.54E+01	9.55E-01	1.05E+00	3.64E+01	1.00E+00	9.74E-01	3.64E+01	-7%	0%
Trichloroethane, 1,1,1 -	71-55-6	24-hour	1.10E-01	6.08E-05	5.96E-05	1.10E-01	6.39E-05	5.50E-05	1.10E-01	-8%	0%
Trichloroethene	86-42-0	24-hour	5.40E-01	2.10E-05	2.05E-05	5.40E-01	2.20E-05	1.89E-05	5.40E-01	-8%	0%
Trichloroethylene, 1,1,2 -	79-01-6	24-hour	—	2.10E-05	2.05E-05	2.05E-05	2.20E-05	1.89E-05	1.89E-05	-8%	—
Trichloroethylene, 1,1,2 -	79-01-6	24-hour	—	2.10E-05	2.05E-05	2.05E-05	2.20E-05	1.89E-05	1.89E-05	-8%	—
Trichlorofluoromethane	75-69-4	24-hour	2.15E+00	7.34E-03	7.19E-03	2.16E+00	7.71E-03	6.64E-03	2.16E+00	-8%	0%
Vanadium	7440-62-2	24-hour	1.55E-03	4.96E-05	4.86E-05	1.60E-03	5.20E-05	4.48E-05	1.59E-03	-8%	0%
Vinyl chloride	75-01-4	24-hour	5.88E-03	1.86E-03	1.82E-03	7.70E-03	1.95E-03	1.68E-03	7.56E-03	-8%	-2%
Vinyl chloride	75-01-4	24-hour	5.88E-03	1.86E-03	1.82E-03	7.70E-03	1.95E-03	1.68E-03	7.56E-03	-8%	-2%
Xylenes, m-, p- and o-	1330-20-7	24-hour	4.83E+00	2.57E-02	2.52E-02	4.86E+00	2.70E-02	2.33E-02	4.85E+00	-8%	0%
Xylenes, m-, p- and o-	1330-20-7	10-minute	1.94E+01	2.57E-02	2.45E-01	1.96E+01	2.70E-02	2.57E-01	1.97E+01	5%	0%
Xylenes, m-, p- and o-	1330-20-7	24-hour	4.83E+00	2.57E-02	2.52E-02	4.86E+00	2.70E-02	2.33E-02	4.85E+00	-8%	0%
Zinc	7440-66-6	24-hour	4.00E-02	8.50E-03	8.33E-03	4.83E-02	8.93E-03	7.69E-03	4.77E-02	-8%	-1%