

APPENDIX 8.6 - Process Information

Table A8.91a Source Emission Data for Maximum Emissions From The Ringaskiddy Resource Recovery Facility

Stack Reference	Stack Height (m)	Exit Diameter (m)	Cross-Sectional Area (m ²)	Temperature (K)	Max Volume Flow (Nm ³ /hr)	Exit Velocity (m/sec actual)	Concentration (mg/Nm ³)	Mass Emission (g/s)
Maximum Stack - Grate Incinerator	70	2.3	4.15	408.15	211,000	19.94	NO ₂ – 400 SO ₂ – 200 Dust – 30 CO – 150 TOC – 20 HCl – 60 HF – 4.0 Dioxins – 0.1 ng/m ³ Cd & Tl – 0.05 Hg – 0.05 Sum of Metals – 0.5	NO ₂ – 23.4 SO ₂ – 11.7 Dust – 1.76 CO – 8.79 TOC – 1.17 HCl – 3.52 HF – 0.23 Dioxins – 5.9E-9 Cd & Tl – 0.00293 Hg – 0.00293 Sum of Metals – 0.0293

Table A8.91b Source Emission Data for Average Emissions From The Ringaskiddy Resource Recovery Facility

Stack Reference	Stack Height (m)	Exit Diameter (m)	Cross-Sectional Area (m ²)	Temperature (K)	Max Volume Flow (Nm ³ /hr)	Exit Velocity (m/sec actual)	Concentration (mg/Nm ³)	Mass Emission (g/s)
Nominal Stack - Grate Incinerator	70	2.3	4.15	408.15	161,977	15.3	NO ₂ – 200 SO ₂ – 50 Dust – 10 CO – 50 TOC – 10 HCl – 10 HF – 1.0 Dioxins – 0.05 ng/m ³ Cd & Tl – 0.05 Hg – 0.05 Sum of Metals – 0.5	NO ₂ – 9.00 SO ₂ – 2.25 Dust – 0.45 CO – 2.25 TOC – 0.45 HCl – 0.45 HF – 0.045 Dioxins – 4.5E-9 Cd & Tl – 0.00225 Hg – 0.00225 Sum of Metals – 0.0225