Permit Reference Number : BU2357/AP3634SJ	Operator : Warwick Chemicals
Installation : Mostyn, Flintshire	Form Number : A3 / (Incinerator Periodic Monitoring)

Six Monthly Reporting of Emissions to Air for the period:	From	1st January 2021	To	30th June 2021

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
A14	Hydrogen chloride	10 mg/m^3 over minimum 1 hour period	0.40mg/m^3	BS EN 1911	09/02/2021 14.50 – 16.50	ISO 17025	95%
A14	Hydrogen fluoride	1 mg/m^3 over minimum 1 hour period	<0.05mg/m^3	US EPA 26/26A	11/02/2021 11.10 – 12.10	ISO 17025	95%
A14	Sulphur dioxide	50 mg/m^3 (average of ½-hour averages) over minimum 4 hour period	0.024mg/m^3	BS6069-4.1	09/02/0221 12.37 – 14.37	ISO 17025	95%
A14	Cadmium & thallium and their compounds (total)	0.05 mg/m^3 over minimum 30 minute, maximum 8 hour period	0.00085mg/m^3	BS EN 14385	12/02/2021 09.37 – 11.37	ISO 17025	95%
A14	Mercury and its compounds	0.05 mg/m^3 over minimum 30 minute, maximum 8 hour period	0.00008mg/m^3	BS EN 13211	12/02/2021 09.37 – 11.37	ISO 17025	95%
A14	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m^3 over minimum 30 minute, maximum 8 hour period	0.010mg/m^3	BS EN 14385	12/02/2021 09.37 – 11.37	ISO 17025	95%
A14	Dioxins / furans (I-TEQ)[6]	0.1 ng/m^3 over minimum 6 hour, maximum 8 hour period	0.011ng/m^3	BS EN 1948	10/02/2021 10.11 – 16.11	ISO 17025	95%
A14	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)[6]	No limit applies	0.00017nm/m^3	BS EN 1948	10/02/2021 10.11 – 16.11	ISO 17025	95%
A14	Dioxin-like PCBs (WHO-TEQ Fish)[6]	No limit applies	0.000009nm/m^3	BS EN 1948	10/02/2021 10.11 – 16.11	ISO 17025	95%
A14	Dioxin-like PCBs (WHO-TEQ Birds)[6]	No limit applies	0.000602 nm/m^3	BS EN 1948	10/02/2021 10.11 – 16.11	ISO 17025	95%
A14	Dioxins / furans (WHO-TEQ Humans / Mammals) [6]	No limit applies	0.011ng/m^3	BS EN 1948	10/02/2021 10.11 – 16.11	ISO 17025	95%
A14	Dioxins / furans (WHO-TEQ Fish) [6]	No limit applies	0.0019nm/m^3	BS EN 1948	10/02/2021 10.11 – 16.11	ISO 17025	95%
A14	Dioxins / furans (WHO-TEQ Birds) [6]	No limit applies	0.0035nm/m^3	BS EN 1948	10/02/2021 10.11 – 16.11	ISO 17025	95%
A14	Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	0.9 µg/m^3	ISO 11338	11/02/2021 09.58 – 15.58	ISO 17025	95%

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
A14	Anthanthrene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Benzo{a}anthracene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Benzo[b]fluoranthene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Benzo[k]fluoranthene	No limit applies	0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Benzo[b]naph(2,1-d}thiophene	No limit applies	0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Benzo[c]phenanthrene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Benzo[ghi]perylene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Benzo[a]pyrene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Cholanthrene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Chrysene	No limit applies	0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Cyclopenta(c,d)pyrene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Dibenzo[ah]anthracene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Dibenzo[a,i]pyrene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Fluoranthene	No limit applies	0.068µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Indo[1,2,3-cd]pyrene	No limit applies	<0.012µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%
A14	Naphthalene	No limit applies	0.6µg/m^3	-	11/-2/2021 09.58 – 15.58	ISO 17025	95%

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.
[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
[6] The result to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum

Signed	Peter Byrd	Date	5th May 2021
	(authorised to sign as representative of Warwick Chemicals)		