Releases into the Air from the Primary & Secondary Incinerators (Release Point references A1 & A2)

Reporting of Periodic Emissions Monitoring Data for period from July - December 2017

	Primary Incinerator (Release Point reference A1)					Secondary Incinerator (Release Point reference A2)				
	Test Date	Test Method & sample time	Uncertainty (%)	Result [1]	ELV [2]	Test Date	Test Method & sample time	Uncertainty (%)	Result [1]	ELV [2]
HF [3] mg/m^3	19/7/17	BSISO15713 11:35 - 13:35	6.6	0.03	2 mg/m^3	20/7/17	BSISO15713 10:55 - 12:55	8	0.05	2 mg/m^3
Cd + Tl [4] mg/m^3	18/7/17	BS EN 14385 11:25 - 13:25	16.6	0.0006	0.05 mg/m^3	19/7/17	BS EN 14385 09:28 - 11:28	20	0.001	0.05 mg/m^3
Hg [5] mg/m^3	18/7/17	BS EN13211 11:25 - 13:25	15	0.0004	0.05 mg/m^3	19/7/17	BS EN13211 09:28 - 11:28	12.5	0.0004	0.05 mg/m^3
Metals [6] mg/m^3	18/7/17	BS EN14385 11:25 - 13:25	18.18	0.11	0.5 mg/m^3	19/7/17	BS EN14385 09:28 - 11:28	16.6	0.024	0.5 mg/m^3
PAHs [7] ug/m^3	18/7/17	BSISO1133 14:30 - 16:30	20.6	1.5	-	19/7/17	BSISO1133 13:25 - 15:25	21.5	3.4	-
PCBs [8] ng/m^3	19/7/17	BS EN 1948 10:40 - 16:40	21.4	0.00084	-	20/7/17	BS EN 1948 08:50 - 14:50	21.4	0.0084	-
Dioxins [9] ng/m^3	19/7/17	BS EN 1948 10:40 - 16:40	20.9	0.00406	0.1 ng/m^3	20/7/17	BS EN 1948 08:50 - 14:50	21.5	0.0651	0.1 ng/m^3

[1] All values are expressed at the following conditions: 273K, 101.3kPa, 11% v/v oxygen, dry gas without correction for uncertainty.
[2] ELV means Emission Limit Value.
[3] HF means hydrogen fluoride.
[4] Cd+Tl means cadmium and thallium including the gas, vapour and solid phases of the metals and their compounds, in total, expressed as the metals.
[5] Hg means mercury including the gas, vapour and solid phases of the metal and its compounds, in total, expressed as the metal.
[6] Metals means antimony, arsenic, chromium, cobalt, copper, lead, manganese, nickel & vanadium including the gas, vapour and solid phases of the metals and their compounds, in total, expressed as the metals.
[7] PAHs means polyaromatic hydrocarbons.
[8] PCBs means dioxin-like PCBs.
[9] Dioxins means dioxins and furans expressed as the TEQ based upon the I-TEF scheme for toxic equivalence.

Signed:…… R Kumar ……

Authorised to sign on behalf of SITA Waste (Isle of Man) Limited

Form Reference Number: **S3/A/3**
Version Number: 1
Date of Issue: 14th November 2003

Date:……8/1/18……..

Results of Continuous Dioxin Sampling			
Primary Incinerator (Release Point reference A1)		Secondary Incinerator (Release Point reference A2)	
Sample Period (dates)	Average Concentration (I-TEQ) ng/m^3	Sample Period (dates)	Average Concentration (I-TEQ) ng/m^3
6/6/17 – 3/7/17	0.0118	Continuous Monitoring discontinued in the Secondary in agreement with EPU. Quarterly Periodic sampling will replace this.	
3/7/17 – 11/8/17	0.0305		
11/8/17 – 14/9/17	0.0122		
Fault With AMESA system means continuous monitoring cannot currently take place, additional dioxin testing by Catalyst is being carried out.			

Signed:…… RLkimar ……

Authorised to sign on behalf of SITA Waste (Isle of Man) Limited

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Releases into the Air from the Primary & Secondary Incinerators (Release Point references A1 & A2)

Reporting of Periodic Emissions Monitoring Data for period from July-December 2017
(continued)

Results of periodic emissions monitoring for dioxins and furans using different TEF-schemes									
Release Point	I-TEQ		WHO-TEQhuman/mammals		WHO-TEQfish		WHO-TEQbirds		Sample Date
	Congeners<LoD assumed to be zero ng/m^3	Congeners<LoD assumed to be at LoD ng/m^3	Congeners<LoD assumed to be zero ng/m^3	Congeners<LoD assumed to be at LoD ng/m^3	Congeners<LoD assumed to be zero ng/m^3	Congeners<LoD assumed to be at LoD ng/m^3	Congeners<LoD assumed to be zero ng/m^3	Congeners<LoD assumed to be at LoD ng/m^3	
A1	0.00373	0.00406	0.00350	0.00382	0.00385	0.00418	0.00687	0.00719	19/7/17
A2	0.0651	0.0651	0.0614	0.0614	0.0670	0.0670	0.109	0.109	20/7/17

Results of periodic emissions monitoring for dioxin-like PCBs using different TEF-schemes									
Release Point	UK-COT		WHO-TEQhuman/mammals		WHO-TEQfish		WHO-TEQbirds		Sample Date
	Congeners<LoD assumed to be zero ng/m^3	Congeners<LoD assumed to be at LoD ng/m^3	Congeners<LoD assumed to be zero ng/m^3	Congeners<LoD assumed to be at LoD ng/m^3	Congeners<LoD assumed to be zero ng/m^3	Congeners<LoD assumed to be at LoD ng/m^3	Congeners<LoD assumed to be zero ng/m^3	Congeners<LoD assumed to be at LoD ng/m^3	
A1	0.0000013	0.00084	0.0000013	0.00084	0.0000011	0.000038	0.00052	0.0016	19/7/17
A2	0.0084	0.0084	0.0084	0.0084	0.00039	0.00039	0.012	0.012	20/7/17

Note: 'LoD' means Limit of Detection.

Signed:…… R Kumar ……
Authorised to sign on behalf of SITA Waste (Isle of Man) Limited

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