

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

Reporting of Periodic Emissions Monitoring Data for period from April - June 2022

	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	19/02/2023	BSISO15713 13:04 - 15:04	13.3	0.075	2 mg/m ³	17/2/23	BSISO15713 10:52 - 12:52	0.011	0.079	2 mg/m ³
Cd + Tl ^[4] mg/m ³	18/02/2023	BS EN 14385 11:56 - 13:56	17.1	0.0007	0.05 mg/m ³	17/2/23	BS EN 14385 09:34 - 11:34	0.00017	0.00098	0.05 mg/m ³
Hg ^[5] mg/m ³	19/02/2023	BS EN13211 13:04 - 15:04	25.0	0.0012	0.05 mg/m ³	17/2/23	BS EN13211 12:14 - 14:14	0.00022	0.00089	0.05 mg/m ³
Metals ^[6] mg/m ³	18/02/2023	BS EN14385 11:56 - 13:56	22.7	0.022	0.5 mg/m ³	17/2/23	BS EN14385 09:34 - 11:34	0.017	0.08	0.5 mg/m ³
PAHs ^[7] ug/m ³	20/02/2023	BSISO1133 10:47 - 12:47	20.9	1.1	-	19/2/23	BSISO1133 10:26 - 12:26	0.23	1.1	-
PCBs ^[8] ng/m ³	15/02/2023	BS EN 1948 12:02 - 18:02	17.6	0.0017	-	16/2/23	BS EN 1948 10:21 - 16:21	0.0009	0.0041	-
Dioxins ^[9] ng/m ³	15/02/2023	BS EN 1948 12:02 - 18:02	21.1	0.0095	0.1 ng/m ³	16/2/23	BS EN 1948 10:21 - 16:21	0.0177	0.0822	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.

Signed:..........

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:.....19/7/23..... Page 3 of 3

[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.


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

Reporting of Periodic Emissions Monitoring Data for period from January - June 2021 (continued)

Results of periodic emissions monitoring for dioxins and furans using different TEF-schemes									
Release Point	I-TEQ		WHO-TEQ _{human/mammals}		WHO-TEQ _{fish}		WHO-TEQ _{birds}		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	0.0089	0.0095	0.0083	0.0089	0.009	0.0096	0.0143	0.0148	15/2/23
A2	0.0822	0.0822	0.0819	0.0819	0.0908	0.0908	0.1383	0.1383	16/2/23
A1	0.415	0.415	0.0378	0.0378	0.0449	0.0449	0.0656	0.0656	20/4/23
A2	Secondary did not operate during this period.								

Results of periodic emissions monitoring for dioxin-like PCBs using different TEF-schemes									
Release Point	UK-COT		WHO-TEQ _{human/mammals}		WHO-TEQ _{fish}		WHO-TEQ _{birds}		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	0.0017	0.0017	0.0017	0.0017	0.000078	0.000078	0.0029	0.0029	15/2/23
A2	0.0041	0.0041	0.0041	0.0041	0.0002	0.0002	0.0076	0.0076	16/2/23

Note: 'LoD' means Limit of Detection.

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Reporting of Periodic Emissions Monitoring Data for period from January - June 2021 (continued)

	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]
PCBs ^[8]	20/4/23	BS EN 1948 10:35 – 16:35	23.4	0.00295	-	Secondary did not run during this period	BS EN 1948		mg/m3	-
Dioxins ^[9]	5/7/23	BS EN 1948 09:52 – 14:18	22.1	0.018	0.1 ng/m3		BS EN 1948		ng/m3	0.1 ng/m3

[1] All values are expressed at the following conditions: 273°K, 101.3 kPa, 11 % v/v oxygen, dry gas without correction for uncertainty.

[2] ELV means Emission Limit Value.

[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. Keimmar*.....

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