Permit Number: EPR/BL3986ID

Operator: Tarmac Cement & Lime Ltd

Installation: Aberthaw Works

Form number: Air 1 / 31 August 2010

Reporting of Emissions to Air from Emission Point A1 for the six-month period from Jul to Dec 2018

Substance/ Parameter	Emission Limit Value	Result[1]		Test Method[2]	Sample Date and Times[3]		Accreditation/ Certification[4]	Uncertainty[5] ±mg/m3
Hydrogen fluoride	1 mg/m3 over minimum 1 hour period	0.1	mg/m3	BS ISO 15713	12/10/2018	8.28	9.28	0.01
Cadmium & thallium and their compounds (total)	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.003	mg/m3	BS EN 14385	12/10/2018	13.50	14.57	0.001
Mercury and its compounds	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.009	mg/m3	MID 14385	12/10/2018	13.50	14.57	0.0003
Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5mg/m3 over minimum 30 minute, maximum 8 hour period	0.03969	mg/m3	BS EN 14385	12/10/2018	13.50	14.57	0.002
Dioxins/furans (I-TEQ)[6]	0.1ng/m3 over minimum 6 hour, maximum 8 hour period	0.0004	ng/m3	BS EN 1948	11/10/2018	7.06	13.17	0.0002
Dioxins/furans (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.0004	ng/m3				UKAS & MCERTS	0.0002
Dioxins/furans (WHO-TEQ Fish)[6]		0.0004	ng/m3					0.0003
Dioxins/furans (WHO-TEQ Birds)[6]		0.0011	ng/m3					0.0004
Dioxin-like PCBs (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.00004	ng/m3	BS EN 1948				0.000009
Dioxin-like PCBs (WHO-TEQ Fish)[6]		0.000002	ng/m3					0.000001
Dioxin-like PCBs (WHO-TEQ Birds)[6]		0.000276	ng/m3					0.000106
Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	52.40	ug/m3	BS ISO 11338	10/10/2018	13.14	15.20	0.015
Anthanthrene		<0.09	ug/m3				UKAS & MCERTS	0.015
Benzo(a)anthracene		0.09	ug/m3					0.015
Benzo(b)fluoranthene		<0.09	ug/m3					0.015
Benzo(k)fluoranthene		<0.09	ug/m3					0.015
Benzo(b)naph(2,1-d)thiophene		<0.09	ug/m3					0.015
Benzo(c)phenanthrene		<0.09	ug/m3					0.015
Benzo(ghi)perylene		<0.09	ug/m3					0.015
Benzo(a)pyrene		<0.09	ug/m3					0.015
Cholanthrene		<0.09	ug/m3					0.015
Chrysene		<0.09	ug/m3					0.015
Cyclopenta(c,d)pyrene		<0.09	ug/m3					0.015
Dibenzo(ah)anthracene		<0.09	ug/m3					0.015
Dibenzo(ai)pyrene		<0.09	ug/m3					0.015
Fluoranthrene		0.17	ug/m3					0.015
Indeo(123-cd)pyrene		<0.09	ug/m3					0.015
Naphthalene		45.10	ug/m3					98.60

[1] The result given is the maximum value (or 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: Kara Bennett

(authorised to sign as representative of Tarmac Cememt and Lime Ltd)

Date: 28/01/2019

28/1/19