

Permit Number: EPR/BL3986ID

Operator: Lafarge 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 2014

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	0.27	mg/m3	BS ISO 15713	09/12/2014 14:43 15:43	UKAS & MCERTS	0.04
Cadmium & thallium and their compounds (total)	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.0018	mg/m3	BS EN 14385:2004	05/12/2014 09:30 10:30		0.0003
Mercury and its compounds	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.00044	mg/m3	BS EN 13211:2001	05/12/2014 09:30 10:30		0.00006
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	0.082	mg/m3	BS EN 14385:2004	05/12/2014 09:30 10:30		0.013
Dioxins/furans (I-TEQ)[6]	0.1ng/m3 over minimum 6 hour, maximum 8 hour period	0.0039	ng/m3	BS EN 1948-1:2006	09/12/2014 08:30 14:30		0.0009
Dioxins/furans (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.0051	ng/m3				0.0012
Dioxins/furans (WHO-TEQ Fish)[6]		0.0059	ng/m3				0.0014
Dioxins/furans (WHO-TEQ Birds)[6]		0.0055	ng/m3				0.0013
Dioxin-like PCBs (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.005	ng/m3	BS EN 1948-1:2006			0.0012
Dioxin-like PCBs (WHO-TEQ Fish)[6]		0.0058	ng/m3				0.0013
Dioxin-like PCBs (WHO-TEQ Birds)[6]		0.0054	ng/m3				0.0012

Substance/ Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
							±mg/m3
Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	0.05	ug/m3	BS ISO 11338-1	05/12/2014 11:18 13:21	UKAS & MCERTS	0.013
Anthanthrene		<.005	ug/m3				0.001
Benzo(a)anthracene		0.02	ug/m3				0.002
Benzo(b)fluoranthene		<.005	ug/m3				0.001
Benzo(k)fluoranthene		<.005	ug/m3				0.001
Benzo(b)naph(2,1-d)thiophene		0.01	ug/m3				0.001
Benzo(c)phenanthrene		<.005	ug/m3				0.001
Benzo(ghi)perylene		<.005	ug/m3				0.003
Benzo(a)pyrene		<.005	ug/m3				0.001
Cholanthrene		<.005	ug/m3				0.003
Chrysene		0.03	ug/m3				0.014
Cyclopenta(c,d)pyrene		<.005	ug/m3				0.001
Dibenzo(ah)anthracene		<.005	ug/m3				0.001
Dibenzo(ai)pyrene		<.005	ug/m3				0.001
Fluoranthrene		0.06	ug/m3				0.008
Indeo(123-cd)pyrene		<.005	ug/m3				0.001
Naphthalene		0.61	ug/m3				0.080

[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: Robert Fairless

Date: 20/01/2015

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