

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 July to December 2022

Substance/ Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sampling date and times			Accreditation/ Certification ^[4]	Uncertainty ^[5] ±mg/m3
Hydrogen fluoride	1 mg/m3 over minimum 1 hour period	0.06	mg/m3	CEN/TS 17340	18.11.2022	09:03:00	10:03:00	UKAS & MCERTS	0.00
Cadmium & thallium and their compounds (total)	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.002	mg/m3	BS EN 14385	17.11.2022	15:05:00	16:09:00		0.00039
Mercury and its compounds	0.05mg/m3 over minimum 30 minute, maximum 8 hour period	0.02487	mg/m3	BS EN 13211	18.11.2022	10:22:00	11:26:00		0.00596
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	0.029	mg/m3	BS EN 14385	17.11.2022	15:05:00	16:09:00		0.00458
Dioxins/furans (I-TEQ)[6]	0.1ng/m3 over minimum 6 hour, maximum 8 hour period	0.0027	ng/m3	BS EN 1948	21.12.2022	08:09:00	14:17:00		0.0006
Dioxins/furans (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.0016	ng/m3						0.0006
Dioxins/furans (WHO-TEQ Fish)[6]		0.0015	ng/m3						0.0005
Dioxins/furans (WHO-TEQ Birds)[6]		0.0113	ng/m3						0.0026
Dioxin-like PCBs (WHO-TEQ Humans/Mammals)[6]	No limit applies	0.000221	ng/m3	BS EN 1948					0.000047
Dioxin-like PCBs (WHO-TEQ Fish)[6]		0.000018	ng/m3						0.000004
Dioxin-like PCBs (WHO-TEQ Birds)[6]		0.002763	ng/m3					0.000594	
Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	162.10	ug/m3	BS ISO 11338	20.12.2022	11:20:00	13:26:00	UKAS & MCERTS	34.7
Anthanthrene		<0.0078	ug/m3						0.002
Benzo(a)anthracene		0.012	ug/m3						0.003
Benzo(b)fluoranthene		0.029	ug/m3						0.006
Benzo(k)fluoranthene		<0.0109	ug/m3						0.002
Benzo(b)naph(2,1-d)thiophene		0.01	ug/m3						0.002
Benzo(c)phenanthrene		<0.0078	ug/m3						0.002
Benzo(ghi)perylene		<0.0078	ug/m3						0.002
Benzo(a)pyrene		<0.0078	ug/m3						0.002
Cholanthrene		<0.0078	ug/m3						0.002
Chrysene		0.02	ug/m3						0.004
Cyclopenta(c,d)pyrene		<0.0078	ug/m3						0.002
Dibenzo(ah)anthracene		<0.0078	ug/m3						0.002
Dibenzo(ai)pyrene		<0.0078	ug/m3						0.002
Fluoranthene		1.0854	ug/m3						0.233
Indeo(123-cd)pyrene		0.011	ug/m3						0.002
Naphthalene		160.9	ug/m3						34.481

[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: Daniel Bound
(authorised to sign as representative of Tarmac Cement and Lime Ltd)

Date: 20.1.2022