

Permit Number: PP3238LX

Operator: Bakelite Synthetics UK Limited

Facility: Barry Thermosets Plant

Form Number: Water1 / 13/02/2023

Reporting of emissions to water (other than to sewer) and land for the period from 29/09/2023 to 28/12/2023

Emission Point	Substance / Parameter	Emission		Reference Period	Result ^[1]	Average result ^[6]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value							
W1	Maximum volume of effluent discharged under dry conditions determined by no significant rainfall over the previous 48 hours on the Barry site.	6800 m ³ /day	Instantaneous		6169	1190		05/10/2023 12/10/2023 19/10/2023 26/10/2023 02/11/2023 09/11/2023 16/11/2023 23/11/2023 30/11/2023 07/12/2023 14/12/2023 21/12/2023 28/12/2023	
	Maximum volume of effluent discharged	15,900 m ³ /day	Instantaneous		6169	1190		As above	
	Flow	0.19 m ³ /s	Instantaneous		0.071	0.014		As above	
	Monohydric phenol	10 mg/l	24-hour flow proportional sample		6.0	1.08	BS6068-2.12 1990 ISO6439:1990	As above	1.0
	Total suspended solids	150 mg/l	24-hour flow proportional sample		81.2	27.0	BS EN 872 2005 /BS6068- 2.54 2005	As above	11.3
	Chemical oxygen demand	1000 mg/l	24-hour flow proportional sample		191	86.3	BS ISO 15705- 2002/BS6068- 2.80 2002	As above	24.5
	Methanol	50 mg/l	24-hour flow proportional sample		0	0	BS EN ISO 15680 2003	As above	0
	Free formaldehyde	10 mg/l	24-hour flow proportional sample		0.4	0.03	BS 2942 App D	As above	0.06
	Styrene ^[5]	No limit set	24-hour flow proportional sample		n/a	n/a			
	pH	Minimum 6, maximum 9	Instantaneous		7.8	7.5	BS6068-2.50	As above	0.11

Emission Point	Substance / Parameter	Emission		Result ^[1]	Average result ^[6]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period					
	Monohydric phenol	10950 kg/year	Annual mass release	204	n/a			
	Methanol	43800 kg/year	Annual mass release	34.7	n/a			
	Free formaldehyde	10950 kg/year	Annual mass release	31.6	n/a			
E1	Total suspended solids	No limit set	24-hour flow proportional sample	74.8	37.0	BS EN 872 2005 /BS6068- 2.54 2005	As above	9.63
	Free formaldehyde	No limit set	24-hour flow proportional sample	0.9	0.209	BS 2942 App D	As above	0.172
	Monohydric phenol	No limit set	24-hour flow proportional sample	12.5	2.62	BS6068-2.12 1990 ISO6439:1990	As above	2.43
	Methanol	No limit set	24-hour flow proportional sample	0	0	BS EN ISO 15680 2003	As above	0
	Chemical oxygen demand	No limit set	24-hour flow proportional sample	307	158	BS ISO 15705-2002/BS6068-2.80 2002	As above	43.3

[1] The result given is the maximum value (or the 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 Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example 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 uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[5] Monitoring of styrene required when styrene is in use at the installation

[6] An average of the samples taken over the reporting period (every 3 months)

Signed
(Authorised to sign as representative of Operator)

Date.....25th January 2024.....