

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 26/06/2025 to 30/09/2025

Emission Point	Substance / Parameter	Emission		Result ^[1]	Average result ^[6]	Test Method ^[2]	Uncertainty ^[4]	
		Limit Value	Reference Period					
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	1930	348		01/07/2025 to 30/09/2025	
	Maximum volume of effluent discharged	15,900 m ³ /day	Instantaneous	1930	348		01/07/2025 to 30/09/2025	
	Flow	0.19 m ³ /s	Instantaneous	0.0223	0.00403		01/07/2025 to 30/09/2025	
	Monohydric phenol	10 mg/l	24-hour flow proportional sample	0.480	0.0662	BS6068-2.12 1990 ISO6439:1 990*	03/07/2025 10/07/2025 17/07/2025 24/07/2025 31/07/2025 07/08/2025 14/08/2025 21/08/2025 28/08/2025 04/09/2025 11/09/2025 18/09/2025 25/09/2025	0.0819
	Total suspended solids	150 mg/l	24-hour flow proportional sample	100	37.5	BS EN 872 2005 /BS6068-2.54 2005	As above	17.6

Emission Point	Substance / Parameter	Emission			Result ^[1]	Average result ^[6]	Test Method ^[2]	Uncertainty ^[4]
		Limit Value	Reference Period					
	Chemical oxygen demand	1000 mg/l	24-hour flow proportional sample	621	240	BS ISO 15705-2002/BS6068-2.80 2002	As above	119
	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	2.10	0.207	BS 2942 App D	As above	0.322
	Styrene ^[5]	No limit set	24-hour flow proportional sample	n/a	n/a			n/a
	pH	Minimum 6, maximum 9	Instantaneous	8.3	7.85	BS6068-2.50	As above	0.219
	Monohydric phenol	10950 kg/year	Annual mass release	n/a	n/a			n/a
	Methanol	43800 kg/year	Annual mass release	n/a	n/a			n/a
	Free formaldehyde	10950 kg/year	Annual mass release	n/a	n/a			n/a
E1	Total suspended solids	No limit set	24-hour flow proportional sample	99.2	41.7	BS EN 872 2005 /BS6068-2.54 2005	As above	16.9
	Free formaldehyde	No limit set	24-hour flow proportional sample	2.15	0.464	BS 2942 App D	As above	0.436
	Monohydric phenol	No limit set	24-hour flow proportional sample	4.25	0.484	BS6068-2.12 1990 ISO6439:1 990*	As above	0.665
	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	1170	316	BS ISO 15705-2002/BS6068-2.80 2002	As above	177

[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.....05/11/2025.....