

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 31/03/2023 to 30/06/2023**

Emission Point	Substance / Parameter	Emission		Result <sup>[1]</sup>	Average result <sup>[6]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
		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 <sup>3</sup> /day	Instantaneous	2990	476		06/04/2023 13/04/2023 20/04/2023 27/04/2023 04/05/2023 11/05/2023 18/05/2023 25/05/2023 01/06/2023 08/06/2023 15/06/2023 22/06/2023 29/06/2023	
	Maximum volume of effluent discharged	15,900 m <sup>3</sup> /day	Instantaneous	2990	476		As above	
	Flow	0.19 m <sup>3</sup> /s	Instantaneous	0.035	0.006		As above	
	Monohydric phenol	10 mg/l	24-hour flow proportional sample	1.46	0.25	BS6068-2.12 1990 ISO6439:1990	As above	0.242
	Total suspended solids	150 mg/l	24-hour flow proportional sample	28	17.9	BS EN 872 2005 /BS6068- 2.54 2005	As above	3.26
	Chemical oxygen demand	1000 mg/l	24-hour flow proportional sample	325	110	BS ISO 15705- 2002/BS6068- 2.80 2002	As above	40.7
	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	1.64	0.3	BS 2942 App D	As above	0.276
	Styrene <sup>[5]</sup>	No limit set	24-hour flow proportional sample	n/a	n/a			
	pH	Minimum 6, maximum 9	Instantaneous	8	7.6	BS6068-2.50	As above	0.119

Emission Point	Substance / Parameter	Emission		Result <sup>[1]</sup>	Average result <sup>[6]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
		Limit Value	Reference Period					
	Monohydric phenol	10950 kg/year	Annual mass release	n/a	n/a			
	Methanol	43800 kg/year	Annual mass release	n/a	n/a			
	Free formaldehyde	10950 kg/year	Annual mass release	n/a	n/a			
E1	Total suspended solids	No limit set	24-hour flow proportional sample	52.8	34.4	BS EN 872 2005 /BS6068- 2.54 2005	As above	6.60
	Free formaldehyde	No limit set	24-hour flow proportional sample	3.8	0.5	BS 2942 App D	As above	0.568
	Monohydric phenol	No limit set	24-hour flow proportional sample	10.9	1.4	BS6068-2.12 1990 ISO6439:1990	As above	1.74
	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	343	171	BS ISO 15705-2002/BS6068-2.80 2002	As above	52.6

[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.....13<sup>th</sup> July 2023.....