

Permit Number: PP3238LX Operator: Hexion UK Limited  
 Installation: Barry Thermosets Plant Form Number: E1 / 25/04/2013

**Reporting of emissions to water (other than to sewer) for the period from 01/07/2016 to 29/09/2016**

Emission Point	Substance / Parameter	Reference Period	Result <sup>[1]</sup>	Average Result <sup>[5]</sup>	Test Method	Sample Date and Times <sup>[2]</sup>	Uncertainty <sup>[3]</sup>
E1	Total suspended solids	24-hour flow proportional sample	232	177	BS EN 872 2005 /BS6068-2.54 2005	07/07/2016 14/07/2016 21/07/2016 28/07/2016 04/08/2016 11/08/2016 18/08/2016 25/08/2016 01/09/2016 08/09/2016 15/09/2016 22/09/2016 29/09/2016	27.6
E1	Free formaldehyde	24-hour flow proportional sample	3.00	0.69	BS 2942 App D	As above	0.525
E1	Monohydric phenol	24-hour flow proportional sample	17.0	3.31	BS6068-2.12 1990 ISO6439:1990	As above	2.66
E1	Methanol	24-hour flow proportional sample	19.0	1.46	BS EN ISO 15680 2003	As above	2.92

Emission Point	Substance / Parameter	Reference Period	Result <sup>[1]</sup>	Average Result <sup>[5]</sup>	Test Method	Sample Date and Times <sup>[2]</sup>	Uncertainty <sup>[3]</sup>
E1	Chemical Oxygen Demand	24-hour flow proportional sample	1920	1260	BS ISO 15705-2002/BS6068-2.80 2002	As above	220

1. The result given is the maximum value obtained during the reporting period (3 months), expressed in the same terms as the emission limit value.
2. 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.
3. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
4. An average of the samples taken over the reporting period (every 3 months).



Signed .....  
 (Authorised to sign as representative of Operator)

Date.....12<sup>th</sup> October 2016

Permit Number: PP3238LX Operator: Hexion UK Limited  
 Installation: Barry Thermosets Plant Form Number: Water1 / 25/04/2013

**Reporting of emissions to water (other than to sewer) for the period from 01/07/2016 to 29/09/2016**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Average Result <sup>[5]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
W1	Daily discharge. Maximum volume of effluent discharged under dry conditions determined by no significant rainfall over the previous 48 hours on the Barry site. discharged.	6800m <sup>3</sup>	Instantaneous	1744	609		07/07/2016 14/07/2016 21/07/2016 28/07/2016 04/08/2016 11/08/2016 18/08/2016 25/08/2016 01/09/2016 08/09/2016 15/09/2016 22/09/2016 29/09/2016	
W1	Daily discharge. Maximum volume of effluent	15900m <sup>3</sup>	Instantaneous	1744	609		As above	
W1	Flow	0.19m <sup>3</sup> /s	Instantaneous	0.020	0.007		As above	
W1	Monohydric phenol	10mg/l	24-hour flow proportional sample	5.00	0.923	BS6068-2.12 1990 ISO6439:1990	As above	0.946

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Average Result <sup>[5]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
W1	Total suspended solids	150mg/l	24-hour flow proportional sample	100	74.6	BS EN 872 2005 /BS6068-2.54 2005	As above	10.3
W1	Chemical Oxygen Demand	1000mg/l	24-hour flow proportional sample	980	712	BS ISO 15705-2002/BS6068-2.80 2002	As above	104
W1	Methanol	50mg/l	24-hour flow proportional sample	12.0	0.92	BS EN ISO 15680 2003	As above	1.85
W1	Acrylonitrile	50mg/l	24-hour flow proportional sample	0	0	BS 6068 2.85:2003	As above	0
W1	Free formaldehyde	10mg/l	24-hour flow proportional sample	3.00	0.31	BS 2942 App D	As above	0.47
W1	Styrene	None	24-hour flow proportional sample	n/a	n/a	n/a	n/a	n/a
W1	pH	6-9	Instantaneous	7.8	7.6	BS6068-2.50	As above	0.10
W1	Monohydric phenol	10950 kg/year	Annual mass release	-	-	-	-	-
W1	Methanol	43800 kg/year	Annual mass release	-	-	-	-	-
W1	Acrylonitrile	51000 kg/year	Annual mass release	-	-	-	-	-
W1	Free formaldehyde	10950 kg/year	Annual mass release	-	-	-	-	-

1. The result given is the maximum value obtained during the reporting period (3 months), expressed in the same terms as the emission limit value.

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 uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
5. An average of the samples taken over the reporting period (every 3 months). This figure is for information only.



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(Authorised to sign as representative of Operator)

Date.....12<sup>th</sup> October 2016

