

EASTMAN

Cefn Mawr

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18 JUL 2014

16th July 2014

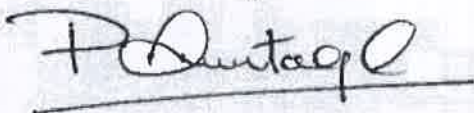
Beth Voice
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

Dear Beth,

Re: Permit No: EPR/NP3335GR
Reporting of Monitoring Data

Please find enclosed the Monitoring Data Report for the period 01/04/2014 to 30/06/2014.

Yours sincerely,



P. Armitage
WTP Production Engineer

MONITORING RETURNS N. WALES

INITIALS DATE

DEVELOPMENT/EXPERIMENTATION

☒ 18.7.14

TECHNICAL

JB 18.7.14

OPERATIONAL/MAINTENANCE

EV 18.7.14

WTP/OTHER

JB EDM.

Permit Number: EPR/NP3335GR

Operator:

Solutia UK Limited

Facility: Ruabon Chemical Works

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water						
Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾
Pentacrylle Adit (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	2.06	TOC Analysis using Hach Large Tubes	02/04/2014 11:00:00
	Total Phenol (mg/l)	No Limit	Quarterly	0.01	HPLC with Electrochemical Detector	02/04/2014 11:00:00
	Major Pollutants (ppb)	No Limit	Quarterly	0	Solvent/Extraction with analysis by GC/MS	02/04/2014 11:00:00
	2,4 Dimethylphenol	Quarterly	0			
	2,6 Dimethylphenol	Quarterly	0			
	Aniline	Quarterly	0			
	Benzothiazole	Quarterly	0			
	Hydroxybenzothiazole	Quarterly	0			
	2,4-Dichloroaniline	Quarterly	0			
	2,4-Dichlorophenol	Quarterly	0			
	4-Ethylmorpholine	Quarterly	0			
	Ficel A	Quarterly	0			
	Methyl Benzothiazole	Quarterly	0			
	O-Cresol	Quarterly	0			
	O-phenetidine	Quarterly	0			
	P-Cresol	Quarterly	0			
	Phenylisocyanate	Quarterly	0			
	P-Phenetidine	Quarterly	0			
	Sulphur (Mol)	Quarterly	0			
	Tetrachloroethylene	Quarterly	0			
	2,4,6 Trichlorophenol	Quarterly	0			
	Toluene	Quarterly	0			
	Xylene	Quarterly	0			

Note 1: This is an off-site environmental monitoring condition

- [1] The result is maximum value (or the minimum value in the case of a limit 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 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. colorimetry.
- [3] For non continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples the percentage of the process operating time covered by the monitoring is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis as stated

Signed:

(authorised to sign as representative of the Operator)

Date:

16/07/2014

Permit Number: EPR/NP3335GR

Facility: Ruabon Chemical Works

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Operator:

Solutia UK Limited

Form Number: Water 1

Emissions to Water

Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾	Uncertainty ⁽⁴⁾
Treyment Brook (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	4.74	TOC Analysis using Hach Lange Tubes	14/05/2014 11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.01	HPLC with Electrochemical Detector	09/04/2014 11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
Micro Pollutants (Note 1)							
	2,4-Dimethylphenol	No Limit	Quarterly	0	Solvent Extraction with analysis by GC/MS		See repeatability data for micro pollutants
	2,6-Dimethylphenol	No Limit	Quarterly	0			
	Aniline	No Limit	Quarterly	0			
	Benzothiazole	No Limit	Quarterly	0			
	Hydroxybenzothiazole	No Limit	Quarterly	0			
	2,4-Dichloroaniline	No Limit	Quarterly	0			
	2,4-Dichlorophenol	No Limit	Quarterly	0			
	4-Ethymorpholine	No Limit	Quarterly	0			
	Fecicol A	No Limit	Quarterly	0			
	Methyl Benzothiazole	No Limit	Quarterly	0			
	O-Cresol	No Limit	Quarterly	0			
	O-phenetidine	No Limit	Quarterly	0			
	P-Cresol	No Limit	Quarterly	0			
	Phenylisocyanate	No Limit	Quarterly	0			
	P-Phenetidine	No Limit	Quarterly	0			
	Sulphur (Mol)	No Limit	Quarterly	0			
	Tetrachloroethylene	No Limit	Quarterly	0			
	2,4,6-Trichlorophenol	No Limit	Quarterly	0			
	Toluene	No Limit	Quarterly	0			
	Xylene	No Limit	Quarterly	0			

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Facility: Ruabon Chemical Works

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Operator:

Form Number: Water 1

Solutia UK Limited

Emissions to Water						
Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]
Factory Borehole Middle (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	26.3	TOC Analysis using Hach Large Tubes	21/05/2014 09:00:00
	Total Phenol (mg/l)	No Limit	Quarterly	0.05	HPPLC with Electrochemical Detector	16/04/2014 09:00:00
Notes: [1] Method: HPLC with Electrochemical Detector, [2] Method: TOC Analysis using Hach Large Tubes, [3] Method: HPPLC with Electrochemical Detector						
	2,6 Dimethylphenol	No Limit	Quarterly	0	Solvent Extraction with analysis by GC/MS	
	4-Acetyl morpholine		Quarterly	0		
	Aniline		Quarterly	0		
	Hydroxybenzothiazole		Quarterly	619		18/06/2014 09:00:00
	2,4-Dichloroaniline		Quarterly	0		
	2,4-Dichlorophenol		Quarterly	0		
	Ethoxybenzene		Quarterly	0		
	4-Ethylmorpholine		Quarterly	0		
	Ficlor A		Quarterly	0		
	O-pheneldine		Quarterly	44.4		18/06/2014 09:00:00
	Phenyl Salicylate		Quarterly	0		
	Phthalimide		Quarterly	0		
	P-Pheneldine		Quarterly	101		18/06/2014 09:00:00
	Tetrachloroethylene		Quarterly	0		
	2,4,6 Trichlorophenol		Quarterly	0		
	Toluene		Quarterly	0		
	Xylene		Quarterly	0		

Note 1: This is an off-site environmental monitoring condition

- [1] The result is maximum value (or the minimum value in the case of a limit 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 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. colorimetry.
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Facility: Ruabon Chemical Works

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water						
Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]
Factory Borehole South (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	4.97	TOC Analysis using Hach Lange Tubes	29/05/2014 09:00:00
	Total Phenol (mg/l)	No Limit	Quarterly	0.03	HPLC with Electrochemical Detector	29/05/2014 09:00:00
	Minor Pollutants (mg/l)	No Limit			Solvent Extract with analysis by GC/MS	
	2,6 Dimethylphenol		Quarterly	0		
	4-Acetylmorpholine		Quarterly	0		
	Aniline		Quarterly	0		
	Hydroxybenzothiazole		Quarterly	7.4		29/05/2014 09:00:00
	2,4-Dichloroaniline		Quarterly	0		
	2,4-Dichlorophenol		Quarterly	0		
	Ethoxybenzene		Quarterly	0		
	4-Ethylmorpholine		Quarterly	0		
	Ficoid A		Quarterly	0		
	O-phenetidine		Quarterly	0		
	Phenyl Salicylate		Quarterly	0		
	Phthalimide		Quarterly	0		
	p-Phenaldine		Quarterly	0		
	Tetrachloroethylene		Quarterly	0		
	2,4,6 Trichlorophenol		Quarterly	0		
	Toluene		Quarterly	0		
	Xylene		Quarterly	0		

Note 1: This is an off-site environmental monitoring condition

- [1] The result is maximum value (or the minimum value in the case of a limit 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 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. colorimetry.
- [3] For non continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples the percentage of the process operating time covered by the monitoring is given.
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Date:

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Solutia UK Limited

Facility: Ruabon Chemical Works

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water						
Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾
Brook Cuiwet Sump (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	13.7	TOC Analysis using Hach Lange Tubes	09/04/2014 10:00:00
	Total Phenol (mg/l)	No Limit	Quarterly	0.02	HPLC with Electrochemical Detector	09/04/2014 10:00:00
	Micro Pollutants (ppb)	No Limit	Quarterly	0	Spillwast Extraction with analysis by GC/MS	11/06/2014 10:00:00
	2,4-Dimethylphenol		Quarterly	0		
	2,6-Dimethylphenol		Quarterly	0		
	Aniline		Quarterly	0		
	Benzothiazole		Quarterly	0		
	Hydroxybenzothiazole		Quarterly	2472		14/05/2014 10:00:00
	2,4-Dichloroaniline		Quarterly	0		
	2,4-Dichlorophenol		Quarterly	0		
	4-Ethylmorpholine		Quarterly	0		
	Flecia A		Quarterly	3.4		11/06/2014 10:00:00
	Methyl Benzothiazole		Quarterly	0		
	O-Cresol		Quarterly	0		
	O-Dimethyldine		Quarterly	152		14/05/2014 10:00:00
	P-Cresol		Quarterly	0		
	Phenylisocyanate		Quarterly	0		
	P-Pheneldine		Quarterly	1178		09/04/2014 10:00:00
	Sulphur (Mo)		Quarterly	0		
	Tetrachloroethylene		Quarterly	0		
	2,4,6 Trichlorophenol		Quarterly	0		
	Toluene		Quarterly	0		
	Xylene		Quarterly	0		

Note 1: This is an all-site environmental monitoring condition

- [1] The result is maximum value (or the minimum value in the case of a limit 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 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. colorimetry.
- [3] For non continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples the percentage of the process operating time covered by the monitoring is given.
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Solutia UK Limited

Facility: Ruabon Chemical Works

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water						
Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾
Road Culvert Sump (Nolet)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	4.41	TOC Analysis using Hach Lange Tubes	09/04/2014 10:00:00
	Total Phenol (mg/l)	No Limit	Quarterly	0.02	HPLC with Electrochemical Detector	14/05/2014 10:00:00
	Macro Pollutants (ppb)	As Limit	Quarterly	0	Solvent Extraction with analysis by GC/MS	16/07/2014 10:00:00
	2,4-Dimethylphenol		Quarterly	0		
	2,4,6-Dimethylphenol		Quarterly	0		
	Aniline		Quarterly	0		
	Benzothiazole		Quarterly	0		
	Hydroxybenzothiazole		Quarterly	0		
	2,4-Dichloroaniline		Quarterly	0		
	2,4-Dichlorophenol		Quarterly	0		
	4-Ethymorpholine		Quarterly	0		
	Flectol A		Quarterly	0		
	Methyl Benzothiazole		Quarterly	0		
	O-Cresol		Quarterly	0		
	O-pheneldine		Quarterly	0		
	P-Cresol		Quarterly	0		
	Phenylisocyanate		Quarterly	0		
	P-Pheneldine		Quarterly	0		
	Sulphur (Mol)		Quarterly	0		
	Tetrachloroethylene		Quarterly	0		
	2,4,6-Trichlorophenol		Quarterly	0		
	Toluene		Quarterly	0		
	Xylene		Quarterly	0		

Note 1: This is an off-site environmental monitoring condition

- [1] The result is maximum value (or the minimum value in the case of a limit 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
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Solutia UK Limited

Facility: Ruabon Chemical Works

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water							
Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Phosymedre Quarry Leachate (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	86.1	TOC Analysis using Hach Lange Tubes	04/06/2014 11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.14	HPLC with Electrochemical Detector	02/05/2014 11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Mixture of Pollutants (see)	No Limit			Solvent Extraction with analysis by GC/MS		See Reportability criteria for micro pollutants
	2,6-Dimethylphenol		Quarterly	12		02/05/2014 11:00:00	
	4-Acetylmorpholine		Quarterly	21		02/05/2014 11:00:00	
	Aniline		Quarterly	55		02/05/2014 11:00:00	
	Hydroxybenzothiazole		Quarterly	2780		02/05/2014 11:00:00	
	2,4-Dichloroaniline		Quarterly	0			
	2,4-Dichlorophenol		Quarterly	0			
	Dimorpholinyl Ketone		Quarterly	0			
	Ethoxybenzene		Quarterly	106		02/05/2014 11:00:00	
	4-Ethymorpholine		Quarterly	3		02/05/2014 11:00:00	
	Fieciol A		Quarterly	0			
	Methyl Benzothiazole		Quarterly	0			
	O-phenetidine		Quarterly	155		02/05/2014 11:00:00	
	Phenyl Salicylate		Quarterly	0			
	Phthalimide		Quarterly	0			
	P-Phenetidine		Quarterly	30125		02/05/2014 11:00:00	
	Sulphur (Mol)		Quarterly	0			
	Tetrachloroethylene		Quarterly	0			
	2,4,6-Trichlorophenol		Quarterly	0			
	Toluene		Quarterly	0			
	Xylene		Quarterly	0			

Note 1: This is an off-site environmental monitoring condition

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16/07/2014

Permit Number: EPR/NP3335GR

Facility: Ruabon Chemical Works

Operator:

Solutia UK Limited

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water						
Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾
Ffosymedre Quarry b/n B3 (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	41	TOC Analysis using Hach Lange Tubes	25/04/2014 11:00:00
	Total Phenol (mg/l)	No Limit	Quarterly	0.03	HPLC with Electrochemical Detector	02/04/2014 11:00:00
Micro Pollutants (mg/l)						
	2,6-Dimethylphenol	No Limit	Quarterly	0	Solvent Extraction with analysis by GC/MS	
	4-Acetylmorpholine	No Limit	Quarterly	0		
	Aniline	No Limit	Quarterly	0		
	Hydroxybenzothiazole	No Limit	Quarterly	575		02/05/2014 11:00:00
	2,4-Dichloroaniline	No Limit	Quarterly	0		
	2,4-Dichlorophenol	No Limit	Quarterly	0		
	Dimorpholyl Ketone	No Limit	Quarterly	0		
	Ethoxybenzene	No Limit	Quarterly	53		02/05/2014 11:00:00
	4-Ethymorpholine	No Limit	Quarterly	0		
	Fleclo A	No Limit	Quarterly	0		
	Methyl Benzothiazole	No Limit	Quarterly	0		
	O-phenellidine	No Limit	Quarterly	0		
	Phenyl Salicylate	No Limit	Quarterly	0		
	Phthalimide	No Limit	Quarterly	0		
	P-Phenellidine	No Limit	Quarterly	0		
	Sulphur (Mo)	No Limit	Quarterly	0		
	Tetrachloroethylene	No Limit	Quarterly	0		
	2,4,6-Trichlorophenol	No Limit	Quarterly	0		
	Toluene	No Limit	Quarterly	0		
	Xylene	No Limit	Quarterly	0		

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Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water						
Emission Point	Substance/Parameter	Emission Limit Value	Reference Period	Result (1)	Test Method ²	Sample Date and Times ³
River Dee Upstream (Note 1)	Micro Pollutants (ppb)	Not Limit			Substantiation with extracts by GC/MS	
	Aniline		Quarterly	0		
	Benzothiazole		Quarterly	0		
	2,4-Dichlorophenol		Quarterly	0		
	Dimorpholinyl Ketone		Quarterly	0		
	Elkoxbenzene		Quarterly	0		
	4-Ethylmorpholine		Quarterly	0		
	Flecol A		Quarterly	0		
	Methyl BTH Sulphone		Quarterly	0		
	Methyl Sulphyl BTH		Quarterly	0		
	Methyl-4-morpholinocarbodithioate		Quarterly	0		
	O-Cresol		Quarterly	0		
	P-Cresol		Quarterly	0		
	Phenylisothiocyanate		Quarterly	0		
	Phthalimide		Quarterly	0		
	Tetrachloroethylene		Quarterly	0		
	2,4,6-Trichlorophenol		Quarterly	0		
	Toluene		Quarterly	0		
	Xylene		Quarterly	0		

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- [3] For non continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples the percentage of the process operating time covered by the monitoring 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. The following uncertainties are quoted on a different basis (basis as stated).

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P. J. J. J.
(authorised to sign as representative of the Operator)

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16/07/2014

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Solutia UK Limited

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Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water						
Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Facility (1)	Test Method (2)	Sample Date and Times (3)
River Dee Downstream (Note 1)	Glucosyl Polyphosphates (RPS)	As Limit			Solvent Extraction with analysis by GC/MS	
	Aniline		Quarterly	0		
	Benzothiazole		Quarterly	0		
	2,4-Dichlorophenol		Quarterly	0		
	Dimorpholinyl Ketone		Quarterly	0		
	Ethoxybenzene		Quarterly	0		
	4-Ethylmorpholine		Quarterly	0		
	Flectol A		Quarterly	0		
	Methyl BTH Sulphone		Quarterly	0		
	Methyl Sulphyl BTH		Quarterly	0		
	Methyl-4-morpholinocarbodithiolate		Quarterly	0		
	O-Cresol		Quarterly	0		
	P-Cresol		Quarterly	0		
	Phenylisothiocyanate		Quarterly	0		
	Phthalimide		Quarterly	0		
	Tetrachloroethylene		Quarterly	0		
	2,4,6-Trichlorophenol		Quarterly	0		
	Toluene		Quarterly	0		
	Xylene		Quarterly	0		

Note 1: This is an off-site environmental monitoring condition

- [1] The result is maximum value (or the minimum value in the case of a limit 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 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. colorimetry.
- [3] For non continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples the percentage of the process operating time covered by the monitoring is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

Signed:


(authorised to sign as representative of the Operator)

Date:

16/07/2014

Permit Number: EPR/NP3335GR

Facility: Ruabon Chemical Works

Operator:

Solutia UK Limited

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water						
Emission Point	Substance/Parameter	Emission Limit Value	Reporting Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾
Ground Water Carbon Filler (Brook & Road Culvert)	Total Phenol (mg/l)	0.2	Quarterly	0.01	HPLC with Electrochemical Detector	07/04/2014 09:00:00
	Total Iron (mg/l)	No Limit Set ⁽⁴⁾	Quarterly	3.3	SCA Blue Book Method	03/06/2014 09:00:00
Micro Pollutants (ppb)						
	2,6-Dimethylphenol	Note 1	Quarterly	0	Schmitt Extraction with analysis by GC/MS	See responsibility data for interpretation
	4-Acetylmorpholine		Quarterly	0		
	Aniline		Quarterly	0		
	Hydroxybenzothiazole		Quarterly	0		
	2,4-Dichloroaniline		Quarterly	0		
	2,4-Dichlorophenol		Quarterly	0		
	Dimorpholinyl Ketone		Quarterly	0		
	Ethoxybenzene		Quarterly	0		
	4-Ethylmorpholine		Quarterly	0		
	Flectol A		Quarterly	0		
	Methyl Benzothiazole		Quarterly	0		
	O-phenetidine		Quarterly	0		
	Phenyl Salicylate		Quarterly	0		
	Phthalimide		Quarterly	0		
	P-Phenetidine		Quarterly	0		
	Sulphur (Mo)		Quarterly	0		
	Tetrachloroethylene		Quarterly	0		
	2,4,6-Trichlorophenol		Quarterly	0		
	Toluene		Quarterly	0		
	Xylene		Quarterly	0		

Note 1: Two consecutive weekly or resample results not to exceed: Hydroxybenzothiazole = 20 ppb, Flectol A = 2ppb, others = 2ppb

- [1] The result is maximum value (or the minimum value in the case of a limit 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 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. colorimetry.
- [3] For non continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples the percentage of the process operating time covered by the monitoring is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).
- [5] No limit set - an objective level of 25 mg/l set to monitor effectiveness of carbon fillers & detect Fe breakthrough from the outlet of the fillers [October 2012]

Signed:

(authorised to sign as representative of the Operator)

Date:

16/07/2014

Permit Number: EPR/NP3335GR

Operator:

Solutia UK Limited

Facility: Rubon Chemical Works

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water							
Emission Point	Substance/Parameter	Emission Limit Value	Reporting Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Ground Water Carbon Filter (Middle Borehole)	Total Phenol (mg/l)	0.2	Quarterly	0.01	HPLC with Electrochemical Detector	07/04/2014 09:00:00	Method uncertainty is ± 0.007 mg/l at 0.05 mg/l
	Total Iron (mg/l)	No Limit Set ⁽⁵⁾	Quarterly	22.8	SCA Blue Book Method	02/06/2014 09:00:00	
	Hydrocarbons (ppb)	None ⁽¹⁾			Soxhlet Extraction with analysis by GCMS		See repeatability data for hydrocarbons
	2,6-Dimethylphenol		Quarterly	0			
	4-Acetylmorpholine		Quarterly	0			
	Aniline		Quarterly	0			
	Hydroxybenzothiazole		Quarterly	0			
	2,4-Dichloroaniline		Quarterly	0			
	2,4-Dichlorophenol		Quarterly	0			
	Dimorpholyl Ketone		Quarterly	0			
	Ethoxybenzene		Quarterly	0			
	4-Ethylmorpholine		Quarterly	0			
	Fieciol A		Quarterly	0			
	Methyl Benzothiazole		Quarterly	0			
	O-phenetidine		Quarterly	0			
	Phenyl Salicylate		Quarterly	0			
	Phthalimide		Quarterly	0			
	p-Phenetidine		Quarterly	0			
	Sulphur (Mo)		Quarterly	0			
	Tetrachloroethylene		Quarterly	0			
	2,4,6-Trichlorophenol		Quarterly	0			
	Toluene		Quarterly	0			
	Xylene		Quarterly	0			

Note 1: Two consecutive weekly or resample results not to exceed: Hydroxybenzothiazole = 20 ppb, Fieciol A = 2ppb, others = 2ppb

[1] The result is maximum value (or the minimum value in the case of a limit 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 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. colorimetry.

[3] For non continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples the percentage of the process operating time covered by the monitoring is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

[5] No limit set - an objective level of 25 mg/l set to monitor effectiveness of carbon filters & detect Fe breakthrough from the outlet of the filters [October 2012]

Signed:

Date:

16/07/2014

Permit Number: EPR/NP3336GR

Operator:

Solutia UK Limited

Facility: Ruabon Chemical Works

Form Number: Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/2014 to 30/06/2014

Emissions to Water

Emission Point	Substance/Parameter	Emission Limit Value	Reporting Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Ground Water	Total Phenol (mg/l)	0.2	Quarterly	0.01	HPPLC with Electrochemical Detector	07/04/2014 09:00:00	Method uncertainty is ± 0.007 mg/l at 0.08 mg/l
Carbon Filler (South Borehole)	Total Iron (mg/l)	No Limit Set ⁽⁵⁾	Quarterly	17	SCA Blue Book House	08/06/2014 09:00:00	
More Pollutants (mg/l)							
Note 1							
	2,6-Dimethylphenol		Quarterly	0	Solvent Extraction with analysis by GC/MS		See repeatability data for individual pollutants
	4-Acetylmorpholine		Quarterly	0			
	Aniline		Quarterly	0			
	Hydroxybenzothiazole		Quarterly	0			
	2,4-Dichloroaniline		Quarterly	0			
	2,4-Dichlorophenol		Quarterly	0			
	Dimorpholinyl Ketone		Quarterly	0			
	Ethoxybenzene		Quarterly	0			
	4-Ethylmorpholine		Quarterly	0			
	Flecical A		Quarterly	0			
	Methyl Benzothiazole		Quarterly	0			
	O-phenetidine		Quarterly	0			
	Phenyl Salicylate		Quarterly	0			
	Phthalimide		Quarterly	0			
	P-Phenetidine		Quarterly	0			
	Sulphur (Mol)		Quarterly	0			
	Tetrachloroethylene		Quarterly	0			
	2,4,6-Trichlorophenol		Quarterly	0			
	Toluene		Quarterly	0			
	Xylene		Quarterly	0			

Note 1: Two consecutive weekly or resample results not to exceed: Hydroxybenzothiazole = 20 ppb, Flecical A = 2ppb, others = 2ppb

[1] The result is maximum value (or the minimum value in the case of a limit 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 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. colorimetry.

[3] For non continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples the percentage of the process operating time covered by the monitoring is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

[5] No limit set - an objective level of 25 mg/l set to monitor effectiveness of carbon filters & detect Fe breakthrough from the outlet of the filters [October 2012]

Signed:

(authorised to sign as representative of the Operator)

Date: 16/07/2014

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DB 16/7/14

CHECKED BY: AUTHORIZATION

13/06/2014

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