



SYNTHITE LIMITED

ALYN WORKS, DENBIGH ROAD, MOLD,
FLINTSHIRE, UNITED KINGDOM CH7 1BT

A Member of the Tennant Group (Est. 1797)

Registered Office No: 164640

Telephone: 01352 752521

Fax: 01352 700182

Environment Agency
Chester Rd.
Buckley
Flintshire
CH7 3AJ
08/07/2013

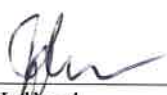
RECEIVED

10 JUL 2013

Dear Sir,

Re: IPPC Permit BU2349

Please find enclosed three copies of monitoring returns for Q2 2013.


J. Hallard
Synthite Ltd.

Encs. Monitoring report

MONITORING RETURNS N. WALES

INITIALS DATE

CHECKED vs AUTHORIZATION

AZ 19-7-13

TRACKING

JB 10-7-13

OK FOR PUBLIC RELEASE

AZ 4-9-13

THREATS/REMARKS

JB EDRM



For Formaldehyde
Paraformaldehyde
ALCOFORM Solvents
Agriculture Products &
Chemical Toll Manufacture



Directors: K.A. Alexander, W.P. Alexander, S.E.R. Alexander, K.G. Jones

Permit Reference Number: BU2349

Operator: Synthite Limited

Installation: Mold Chemicals (Alyn Works)

Form Number: A1

Reporting of Emissions to Air for the period from 01/04/13 to 30/06/13

Emissions to Air							
Emission Point	Substance / Parameter	Emission Limit Value [6]	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
A1	Dimethylamine	5mg/m3	<1.2	Gastec tube	13/05/13	None	25%
A2	Ammonia	10mg/m3	o/c	-	-	-	-
A3	Propionic Acid (Measured as VOC Toluene)	10mg/m3	0.2	VOC meter	24/04/13	None	25%
A4	Formic Acid (Measured as VOC Toluene)	10mg/m3	0.2	VOC meter	24/04/13	None	25%
A5	Ammonia	10mg/m3	<0.2	Gastec tube	24/04/13	None	25%
A5	Formic & Propionic Acid (Measured as VOC Toluene)	10mg/m3	0.7	VOC meter	24/04/13	None	25%
A6	Ammonia	10mg/m3	<0.2	Gastec tube	24/04/13	None	25%
A6	Formic Acid (Measured as VOC Toluene)	10mg/m3	0.8	VOC meter	24/04/13	None	25%
A7	Formaldehyde	2mg/m3	1.3	DNPH/HPLC	13/05/13	None	30%
A7	Acrylamide	5mg/m3	o/c	-	-	-	-
A7	Acrylic Acid	5mg/m3	o/c	-	-	-	-
A7	Ammonia	10mg/m3	2.1	Gastec tube	13/05/13	None	25%
A7	Sulphur Dioxide	50mg/m3	o/c	-	-	-	-
A7	n – Decane (Measured as VOC Toluene)	20mg/m3	12.1	VOC meter	13/05/13	None	25%
A8	Formaldehyde	5mg/m3	1.4	DNPH/HPLC	13/05/13	None	30%
A8	Methanol	40mg/m3	12.1	VOC meter	13/05/13	None	25%
A8	Dimethylamine	5mg/m3	<1.1	Gastec tube	13/05/13	None	25%

Permit Reference Number: BU23349
Installation: Mold Chemicals (Alyn Works)

Operator: Synthite Limited
Form Number: W1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/04/13 to 30/06/13

Emissions to Water						
Emission Point	Substance / Parameter	Emission Limit Value [6]	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]
W1	pH	6.0 – 8.5 [7]	7.0 – 8.2	pH meter	31/05/13, 03/04/13	None
	BOD	10mg/l	2	ISO5815:1989	08/05/13	None
	Suspended Solids	20mg/l	Nil	GFA	All samples within quarter	None
	Formaldehyde	0.25mg/l	0.2	ISO1929:1997		
	Ammonia (Unionised as N)	5mg/l	0.3	DNPH/HPLC	05/06/13	None
	Temperature	25°C	10	Ion Selective Electrode	08/05/13	None
	Volumetric Flow Rate	700m3/day [8]	589	Calibrated thermometer	19/06/13	None
				Meter (ISBN 011752364X)	11/03/13	None
River Monitoring						
R. Alyn	pH	n/a	7.8 – 8.3	pH meter	17/05/13, 10/04/13	None
SJ 2363	Formaldehyde	n/a	0.70	DNPH/HPLC	17/05/13	None
6487						

[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 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.

[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.

[6] The emission limit values are expressed as instantaneous.

[7] The emission limit values for pH are expressed as minimum and maximum individual values.

[8] The emission limit value for volumetric flow rate is expressed as a daily maximum (not to exceed 30m3/hour).

Signed *J. Hallard* Date..... 08/07/13.....
(authorised to sign as representative of the Operator)

Permit Reference Number: BU23349

Operator: Synthite Limited

Installation: Mold Chemicals (Alyn Works)

Form Number: S1

Reporting of Emissions to Sewer for the period from 01/04/13 to 30/06/13

Emissions to Sewer									
Emission Point	Substance / Parameter	Emission Limit Value [6]	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]		
S1	pH	5 – 9 [7]	5.8 – 8.2	pH Meter	21/06/13, 03/05/13	None	20%		
	Suspended solids	400mg/l	220	GFA ISO11929:1997	05/06/13	None	20%		
	Formaldehyde	40mg/l	14.0	DNPH/HPLC	01/05/13	None	30%		
	Methanol	40mg/l	13.6	Gas Chromatography	08/06/13	None	20%		
	Ammonia (Unionised as N)	25mg/l	19.1	Ion Selective Electrode	20/05/13	None	20%		
	COD	1500mg/l	380	Dichromate ISO6060:1989	03/06/13	None	20%		
	Grease and Oils	10mg/l	<10	Gas Chromatography	All samples within quarter	None	20%		
	Volumetric Flow Rate	300m3/day [8]	300	Meter (ISBN 011752364X)	08/04/13	None	20%		
	Temperature	40°C	28	Calibrated Thermometer	20/05/13	None	20%		
Other Monitoring Points			Result [9]						
B/H1	Groundwater level	n/a	4.37	Dip Tape	13/05/13	None	10%		
	Formaldehyde	n/a	0.00	DNPH/HPLC	13/05/13	None	30%		
B/H8	Groundwater level	n/a	1.95	Dip Tape	13/05/13	None	10%		
	Formaldehyde	n/a	0.00	DNPH/HPLC	13/05/13	None	30%		
B/H9	Groundwater level	n/a	2.74	Dip Tape	13/05/13	None	10%		
	Formaldehyde	n/a	0.00	DNPH/HPLC	13/05/13	None	30%		
B/H10	Groundwater level	n/a	3.27	Dip Tape	13/05/13	None	10%		
	Formaldehyde	n/a	0.00	DNPH/HPLC	13/05/13	None	30%		
B/HA	Groundwater level	n/a	3.55	Dip Tape	13/05/13	None	10%		
	Formaldehyde	n/a	0.00	DNPH/HPLC	13/05/13	None	30%		

Emission Point	Substance / Parameter	Emission Limit Value [6]	Result [9]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
B/HB	Groundwater level	n/a	6.67	Dip Tape	13/05/13	None	10%
	Formaldehyde	n/a	0.00	DNPH/HPLC	13/05/13	None	30%
SP4	Groundwater level	n/a	2.17	Dip Tape	13/05/13	None	10%
	Formaldehyde	n/a	0.00	DNPH/HPLC	13/05/13	None	30%
Culvert Pump	Formaldehyde	n/a	89	Titration using sulphite method	13/06/13	None	30%

[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 the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colourimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result 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.

[6] The emission limit values are expressed as instantaneous.

[7] The emission limit values for pH are expressed as minimum and maximum individual values.

[8] The emission limit value for volumetric flow rate is expressed as a daily maximum.

[9] Readings are in metres below the respective borehole surface.

Signed *J. Hallard*
(Authorised to sign as representative of the Operator)

Date..... 08/07/13.....