

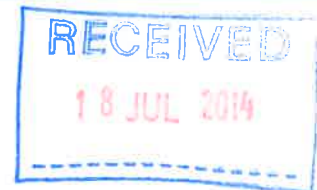


SYNTHITE LIMITED

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
15/07/14



Dear Sir,

Re: IPPC Permit BU2349

Please find enclosed three copies of monitoring returns for Q2 2014.

J. Hallard
Synthite Ltd.

Encs. Monitoring report

MONITORING RETURNS N. MALTS		INITIALS	DATE
CHECKED vs AUTHORISATION		AZ	31-7-14
TRACKING		JB	18-7-14
ON FOR PUBLIC REGISTER		AZ	31-7-14
TYPE TO STATE'S REGISTER		JB	EDRM



For Contaminants
Paratomid/Pyde
ALCOFORM Solution
Agricultural Products &
Chemical Toll Manufacture



Permit Reference Number: BU2349

Operator: Synthite Limited

Installation: Mold Chemicals (Alyn Works)

Form Number: A1

Reporting of Emissions to Air for the period from 01/04/14 to 30/06/14

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/m ³	<1.2	Gastec tube	08/05/14	None	25%
A2	Ammonia	10mg/m ³	o/c	-	-	-	-
A3	Propionic Acid (Measured as VOC Toluene)	10mg/m ³	0.3	VOC meter	14/04/14	None	25%
A4	Formic Acid (Measured as VOC Toluene)	10mg/m ³	0.2	VOC meter	23/04/14	None	25%
A5	Ammonia	10mg/m ³	<0.2	Gastec tube	23/04/14	None	25%
A5	Formic & Propionic Acid (Measured as VOC Toluene)	10mg/m ³	0.7	VOC meter	23/04/14	None	25%
A6	Ammonia	10mg/m ³	<0.2	Gastec tube	23/04/14	None	25%
A6	Formic Acid (Measured as VOC Toluene)	10mg/m ³	0.7	VOC meter	23/04/14	None	25%
A7	Formaldehyde	2mg/m ³	0.9	DNPH/HPLC	08/05/14	None	30%
A7	Acrylamide	5mg/m ³	o/c	-	-	-	-
A7	Acrylic Acid	5mg/m ³	o/c	-	-	-	-
A7	Ammonia	10mg/m ³	2.0	Gastec tube	08/05/14	None	25%
A7	Sulphur Dioxide	50mg/m ³	o/c	-	-	-	-
A7	n - Decane (Measured as VOC Toluene)	20mg/m ³	14.1	VOC meter	08/05/14	None	25%
A8	Formaldehyde	5mg/m ³	0.9	DNPH/HPLC	08/05/14	None	30%
A8	Methanol	40mg/m ³	11.2	VOC meter	08/05/14	None	25%
A8	Dimethylamine	5mg/m ³	<1.1	Gastec tube	08/05/14	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 01/04/14 to 30/06/14

Emissions to Water							
Emission Point	Substance / Parameter	Emission Limit Value [6]	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
W1	pH	6.0 – 8.5 [7]	7.0 – 8.0	pH meter	27/06/14, 23/05/14	None	20%
	BOD	10mg/l	Nil	ISO5815:1989	All samples within quarter	None	20%
	Suspended Solids	20mg/l	Nil	GFA ISO11929:1997	All samples within quarter	None	20%
	Formaldehyde	0.25mg/l	0.20	DNPH/HPLC	09/05/14	None	30%
	Ammonia (Unionised as N)	5mg/l	0.7	Ion Selective Electrode	04/04/14	None	
	Temperature	25°C	12	Calibrated thermometer	04/04/14	None	20%
	Volumetric Flow Rate	700m ³ /day [8]	320	Meter (ISBN 011752364X)	11/04/14	None	20%
River Monitoring							
R. Alyn SJ 2363 6487	pH	n/a	7.1 – 8.3	pH meter	09/05/14, 18/06/14	None	20%
	Formaldehyde	n/a	0.90	DNPH/HPLC	25/04/14	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. 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

Date: 15/7/14 (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 01/04/14 to 30/06/14

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]	5.7 – 8.3	pH Meter	20/06/14, 06/06/14	None	20%		
	Suspended solids	400mg/l	218	GFA ISO11929:1997	16/05/14	None	20%		
	Formaldehyde	40mg/l	3.5	DNPH/HPLC	18/06/14	None	30%		
	Methanol	40mg/l	20.0	Gas Chromatography	20/06/14	None	20%		
	Ammonia (Unionised as N)	25mg/l	3.0	Ion Selective Electrode	14/04/14	None	20%		
	COD	1500mg/l	820	Dichromate ISO6060:1989	09/05/14	None	20%		
	Grease and Oils	10mg/l	<10	Gas Chromatography	All samples within quarter	None	20%		
	Volumetric Flow Rate	300m ³ /day [8]	292	Meter (ISBN 011752364X)	17/04/14	None	20%		
	Temperature	40°C	27	Calibrated Thermometer	28/04/14	None	20%		
Other Monitoring Points									
			Result [9]						
B/H1	Groundwater level	n/a	4.20	Dip Tape	09/06/14	None	10%		
	Formaldehyde	n/a	0.00	DNPH/HPLC	09/06/14	None	30%		
B/H8	Groundwater level	n/a	2.17	Dip Tape	09/06/14	None	10%		
	Formaldehyde	n/a	0.05	DNPH/HPLC	09/06/14	None	30%		
B/H9	Groundwater level	n/a	2.91	Dip Tape	09/06/14	None	10%		
	Formaldehyde	n/a	0.00	DNPH/HPLC	09/06/14	None	30%		
B/H10	Groundwater level	n/a	3.24	Dip Tape	09/06/14	None	10%		
	Formaldehyde	n/a	0.04	DNPH/HPLC	09/06/14	None	30%		
B/HA	Groundwater level	n/a	3.43	Dip Tape	09/06/14	None	10%		
	Formaldehyde	n/a	0.01	DNPH/HPLC	09/06/14	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	6.58	Dip Tape	09/06/14	None	10%
	Formaldehyde	n/a	0.02	DNPH/HPLC	09/06/14	None	30%
SP4	Groundwater level	n/a	2.19	Dip Tape	09/06/14	None	10%
	Formaldehyde	n/a	0.00	DNPH/HPLC	09/06/14	None	30%
Culvert Pump	Formaldehyde	n/a	102	Titration using sulphite method	21/05/14	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

Operator)

Date.....

15/7/14

(Authorised to sign as representative of the