



Natural Resources Wales  
Chester Road  
Buckley  
Flintshire  
CH7 3AJ

Attention of: Alison Soper – Regulatory Officer PPC/RSR

2<sup>nd</sup> February 2016

Dear Mrs Soper

**Re: Quarter 4 Monitoring Report for 2015 - Permit Number: EPR/BR9383ID**

Please find enclosed the completed emissions reporting forms for the period from 1<sup>st</sup> October 2015 to 31<sup>st</sup> December 2015.

I trust this information is satisfactory, however, please do not hesitate to contact me should you require any further information.

Yours sincerely

**Claire Keouski**  
**HSE Manager**

Permit Number: EPR/BR9383ID

Operator: Knauf Insulation Ltd


Facility: Queensferry Mineral Fibre Works

Form Number: Air1a / 011208

**Reporting of emissions to air for the quarter from 1<sup>st</sup> October to 31<sup>st</sup> December 2015:**

Emission Point	Substance / Parameter	Emission Limit Value	Month 1 Average of daily average values	Month 1 Maximum Daily average value	Month 2 Average of daily average values	Month 2 Maximum Daily average value	Month 3 Average of daily average values	Month 3 Maximum Daily average value
A	Particulate Matter	30 mg/m <sup>3</sup>	0.96	2.03	0.91	1.73	0.31	1.00
A	Oxides of Nitrogen (expressed as NO <sub>2</sub> )	300 mg/m <sup>3</sup>	81.04	127.96	79.48	118.21	85.37	119.91
A	Oxides of Sulphur (expressed as SO <sub>2</sub> )	1350 mg/m <sup>3</sup>	684.14	1091.60	724.65	1139.76	678.74	1048.67
A	Carbon Monoxide	80 mg/m <sup>3</sup>	9.83	31.49	9.94	37.79	10.20	37.37

Note. All concentration values are in mg/N m<sup>3</sup> @ 8% O<sub>2</sub> Dry Gas.

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

Date.....02/02/2016

Permit Number: EPR/BR9383ID

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1c / 011208

**Reporting of emissions to air for the 6 month period from 1<sup>st</sup> July to 31<sup>st</sup> December 2015:**

Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>[1]</sup>	Sample Date and Times	Result <sup>[2]</sup>	Sample Date and Times	Result <sup>[3]</sup>	Sample Date and Times
C	Particulate Matter	50 mg / m3	76.5	05/10/2015 14:37 to 15:55	118.2	06/10/2015 12:10 to 13:15	18.31	06/10/2015 15:24 to 16:29
C	Volatile Organic Compounds as C	50 mg / m3	26.9	06/10/2015 12:30 to 13:30	21.13	06/10/2015 13:30 to 14:30	16.32	06/10/2015 14:30 to 15:30
C	Ammonia	50 mg / m3	42.1	05/10/2015 14:37 to 15:55	45.7	06/10/2015 12:10 to 13:15	32.9	06/10/2015 15:24 to 16:29
C	Formaldehyde	10 mg / m3	0.73	07/10/2015 09:45 to 10:50	0.0368	07/10/2015 10:55 to 12:00	1.84	07/10/2015 12:00 to 13:04
C	Phenol	10 mg / m3	4	06/10/2015 13:29 to 14:29	1.73	07/10/2015 09:50 to 10:50	1.81	07/10/2015 11:00 to 12:00
C	Amines*	20 mg/m3	<0.24	05/10/2015 15:55 to 16:55	<0.27	06/10/2015 09:05 to 10:05	<0.19	06/10/2015 10:07 to 11:47

Note: All results are expressed in mg/Nm<sup>3</sup> without correction for water vapour.

In accordance with Condition 3.1.4, the uncertainty error has been subtracted from the measured values, with the exception of the non-detect results, where the limit of detection for the pollutant has been recorded (this relates to substances marked with \* where applicable).

The monitoring results recorded concentrations of Particulate Matter in excess of the Emission Limit Values (Run 1 & Run 2). This was reported as an un-authorized release on 5<sup>th</sup> January 2016 (Reference EP\_EX\_156). Re-test in triplicate for Particulate Matter has been scheduled for 29<sup>th</sup> January 2016.

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

Date.....17/01/2016

Permit Number: EPR/BR9383ID

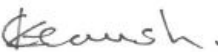
Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1h/011208

**Reporting of upwind and downwind emissions for the 6 month period from 1<sup>st</sup> July to 31<sup>st</sup> December 2015:**

	Upwind Boundary	Downwind Boundary
Formaldehyde mg/Nm <sup>3</sup>	0.0011	0.029
Phenol mg/Nm <sup>3</sup>	<0.027	<0.027
Ammonia mg/Nm <sup>3</sup>	<0.0022	<0.0022

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

Date.....17/01/2016

Permit Number: EPR/BR9383ID

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Sewer1/011208

**Reporting of emissions to sewer for the quarter from 1<sup>st</sup> October to 31<sup>st</sup> December 2015:**

Parameter	Sample Date and Time							
	08/10/2015	09/11/2015	23/11/2015	02/12/2015	05/12/2015			
	13:50	15:00	09:40	14:00	15:45			
Phenol mg/l	45.3	13.3	114	116	25.7			
Total phenolic mg/l	48.7	14.2	123	117	26.7			
Formaldehyde mg/l	12.4	12.3	49.1	122	58.9			
Fluoride mg/l	1.83	1.31	5.23	<5	3.96			
Ammonia mg/l	221	157	735	576	1.67			
pH	7.6	6.95	7.45	7.37	6.6			
COD mg/l	6030	3480	16500	16100	14900			
Total Suspended Solids mg/l	370	298	1420	950	760			
Oil and Grease mg/l	11.1	42	318	236	187			
Averaging Flow m <sup>3</sup> / hour (limit 2.5m <sup>3</sup> / hr)	2.505	2.364	2.116	1.855	2.498			
Total Batch Volume	73.91	50.03	67.55	45.15	38.51			

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

Date.....17/01/2016