



Natural Resources Wales  
Chester Road  
Buckley  
Flintshire  
CH7 3AJ

Attention of: Siân McGregor-Andrew – Regulatory Officer, Industry Regulation Team

27<sup>th</sup> July 2018

Dear Ms McGregor-Andrew

**Re: Quarter 2 Monitoring Report for 2018 - Permit Number: EPR/BR9383ID/V008**

Please find enclosed the completed emissions reporting forms for the period from 1<sup>st</sup> April 2018 to 30<sup>th</sup> June 2018.

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

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Keouski'.

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

Permit Number: EPR/BR9383ID/V008

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1a

**Reporting of emissions to air for the quarter from 1<sup>st</sup> April to 30<sup>th</sup> June 2018**

**Continuous Emissions Monitoring:**

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>	1.46	3.65	2.62	3.64	2.0	8.83
A	Oxides of Nitrogen (expressed as NO <sub>2</sub> )	300 mg/m <sup>3</sup>	78.39	140.89	123.83	143.16	125.54	151.80
A	Oxides of Sulphur (expressed as SO <sub>2</sub> )	1350 mg/m <sup>3</sup>	837.91	1477.35	1089.99	1337.02	993.81	1151.82
A	Carbon Monoxide	80 mg/m <sup>3</sup>	13.52	77.02	8.09	24.18	8.08	46.01

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

In month 1, the highest Maximum Daily Averages for Oxides of Sulphur was reported as un-authorized release on 30<sup>th</sup> April (Reference Number EP\_EX\_200).

Signed ..... 

Date.....27/07/2018

(Authorised to sign as representative of Operator)

Permit Number: EPR/BR9383ID

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1c

Reporting of emissions to air for the 6 month period 1<sup>st</sup> January to 30<sup>th</sup> June 2018

Point C, Mainline forming stack

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 / m <sup>3</sup>	27.1	15/05/2018 09:00 to 10:05	10.4	15/05/2018 10:15 to 11:20	18.0	15/05/2018 11:30 to 12:35
C	Volatile Organic Compounds as C	30 mg / m <sup>3</sup>	16.3	14/05/2018 16:45 to 17:15	21.3	14/05/2018 17:20 to 17:50	21.7	14/05/2018 17:55 to 18:25
C	Ammonia	50 mg / m <sup>3</sup>	27.6	15/05/2018 09:00 to 10:05	34.8	15/05/2018 10:15 to 11:20	37.9	15/05/2018 11:30 to 12:35
C	Formaldehyde	5 mg / m <sup>3</sup>	2.6	14/05/2018 14:31 to 15:01	3.0	14/05/2018 15:20 to 15:50	2.0	14/05/2018 16:05 to 16:35
C	Phenol	10 mg / m <sup>3</sup>	<0.43	14/05/2018 17:10 to 17:40	<0.41	14/05/2018 17:45 to 18:15	<0.41	14/05/2018 18:20 to 18:50
C	Amines	3 mg/m <sup>3</sup>	<2.7	14/05/2018 13:50 to 14:50	<2.7	14/05/2018 14:55 to 15:55	<2.7	14/05/2018 16:00 to 17:00

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

Date.....27/07/2017

Permit Number: EPR/BR9383ID/V009

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1c

**Reporting of emissions to air for the 3 month period for 1st January to 31st March 2018 Point G, Cooling Zone Stack**

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample date and Time
G	Particulate Matter	10 mg/m <sup>3</sup>	11.1*	05/02/2018 14:40 to 16:22	5.8	05/02/2018 16:26 to 18:30	10.7**	06/02/2018 08:01 to 09:45
G	Ammonia	10 mg/m <sup>3</sup>	14.5	05/02/2018 14:40 to 16:22	6.9	05/02/2018 16:26 to 18:30	12.9	06/02/2018 08:01 to 09:45

Note: The monitoring results recorded concentrations of Ammonia (Run 1 & Run 3) in excess of the Emission Limit Values. This was reported as an un-authorized release on 20<sup>th</sup> July 2018 (Reference EP\_EX\_203).

With respect to Particulate Matter and in accordance with TGN M2, the results for Run 1 and Run 3 were reported on 20<sup>th</sup> July 2018 ((Reference EP\_EX\_203) as an approach to limit given that the adjusted value is below the ELV.

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

Date.....23/07/18

Permit Number: EPR/BR9383ID/V009

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

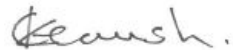
Form Number: Air1c

Reporting of emissions to air for the 3 month period for 1<sup>st</sup> April to 30<sup>th</sup> June 2018

Point G, Cooling Zone Stack

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample date and Time
G	Particulate Matter	10 mg/m <sup>3</sup>	30.6	17/05/2018 11:53 to 12:55	17.6	17/05/2018 13:03 to 14:05	9.4	17/05/2018 14:12 to 15:14
G	Ammonia	10 mg/m <sup>3</sup>	15.0	17/05/2018 11:53 to 12:55	17.3	17/05/2018 13:03 to 14:05	18.8	17/05/2018 14:12 to 15:14

Note: The monitoring results recorded concentrations of Particulate Matter (Run 1 & Run 2) and Ammonia (all results) in excess of the Emission Limit Values. This was reported as an un-authorised release on 20<sup>th</sup> July 2018 (Reference EP\_EX\_203).

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

Date.....23/07/18

Permit Number: EPR/BR9383ID/V009

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1c

**Reporting of emissions to air for the 3 month period for 1<sup>st</sup> January to 31<sup>st</sup> March 2018 Point Y, Cold End Dust Extraction No.2**

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample date and Time
Y	Particulate Matter	10 mg/m <sup>3</sup>	1.1	05/02/2018 14:00 to 16:00	0.52	05/02/2018 16:15 to 18:15	0.52	06/02/2018 12:22 to 13:30

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

Date.....23/07/18

Permit Number: EPR/BR9383ID/V009

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1c

**Reporting of emissions to air for the 3 month period for 1<sup>st</sup> April to 31<sup>st</sup> July 2018 Point Y, Cold End Dust Extraction No.2**

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample date and Time
Y	Particulate Matter	10 mg/m <sup>3</sup>	0.19	17/05/2018 15:31 to 16:33	0.33	17/05/2018 16:37 to 17:39	0.68	17/05/2018 17:45 to 18:47

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

Date.....23/07/18

Permit Number: EPR/BR9383ID

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Water1

**Reporting of emissions to water (other than to sewer) for the six months from 1<sup>st</sup> January to 30<sup>th</sup> June 2018**

Emission Point	pH	Suspended Solids	COD	Sample Date	Sample Time
L3	7.65	12.2	34	13/07/18	11:20
L4	7.87	17	38.6	13/07/18	11:30
L5	7.49	262	226	13/07/18	10:35
L6	7.45	52.3	96.5	13/07/18	10:55

Note: Due to the extreme dry weather conditions, the stormwater monitoring was undertaken at the earliest opportunity for the first six months of 2018.

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

Date.....23/07/18