



Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

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

16th April 2019

Dear Ms McGregor-Andrew

Re: Quarter 1 Monitoring Report for 2019 - Permit Number: EPR/BR9383ID/V010

Please find enclosed the completed emissions reporting forms for the period from 1st January 2019 to 31st March 2019.

Please note the use of newly created form Air 1h for quarterly reporting of Chlorides at Emission point A, Cupola Stack after Oxidizer. This was previously on form A1b for annual reporting. Please let me know if I need to modify this in any way.

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 'Graham Jones'.

Graham Jones
Process and Energy Manager

Permit Number: EPR/BR9383ID/V010

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1a

Reporting of emissions to air for the quarter from 1st January to 31st March 2019 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	20 mg/m3	0.058	0.107	0.093* (0.088**)	0.183* (0.141**)	0.089	0.139
A	Oxides of Nitrogen (expressed as NO2)	300 mg/m3	120.46	174.39	151.98* (132.72**)	274.63* (160.92**)	160.88	195.98
A	Oxides of Sulphur (expressed as SO2)	1350 mg/m3	1075.34	1341.9	1268.18* (999.00**)	2596.79* (1169.27**)	1090.49	1171.65
A	Carbon Monoxide	80 mg/m3	20.21	54.83	22.33* (17.05**)	71.34* (55.69**)	20.00	45.08

Note. All concentration values are in mg/N m³ @ 8% O₂ Dry Gas.

In month 2 a fault with the oxygen probe readings that is used to generate correction factors was identified on 7 February. The mother board was changed on 12th February to resolve the issue (Reference Number EP_EX_223). Month 2 readings with single asterisk are for the full month including the period with faulty oxygen readings. In parentheses with ** are the averages and maximums for the period after the oxygen reading was fully restored and accurate. Exceedances such as the maximum SO₂ reading on 9th February that were within the period where the oxygen measurement issue was known were not reported separately to the report for the O₂ measurement fault

Signed 
 (Authorised to sign as representative of Operator)

Date.....16/04/2019

Permit Number: EPR/BR9383ID/V010

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 2019 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 ³	9.9	19/2/2019 13:25 to 14:29	6.9	19/2/2019 14:34 to 15:36	7.7	19/2/2019 15:41 to 16:43
G	Ammonia	10 mg/m ³	5.6	19/2/2019 13:25 to 14:29	9.1	19/2/2019 14:34 to 15:36	13.7	19/2/2019 15:41 to 16:43

One of the three tests for ammonia exceeded the limit value but was not reported formally as the average of the three test periods was not reportable. Investigation showed that the higher ammonia content was recorded when making a thicker (though still relatively thin at 40mm), less dense product. It is not possible to say at this point whether this is a significant observation.



Signed
(Authorised to sign as representative of Operator)

Date.....16/04/2019

Permit Number: EPR/BR9383ID/V010

Operator: Knauf Insulation Ltd

Facility: Queensferry Mineral Fibre Works

Form Number: Air1h

Reporting of emissions to air for the 3 month period for 1st January to 31st March 2019 Point A, Cupola Stack After Oxidizer

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
A	Chlorides as HCl	10 mg/m ³	29.8	20/2/2019 08:54 to 09:34	42.0	20/2/2019 09:37 to 10:17	78.4	20/2/2019 10:20 to 11:00

The exceedance of the emission limit vale for Chlorides from Emission Point A was reported on EP_EX_224 on receipt of the analysis report on 21st March 2019. Lime dosing to abate the chloride content was not in place at the time of Q1 testing.

At the time of this report lime dosing is commissioned and operator training is progressing. The current aim is to run the system all the time when operating the cupola. There has been a short break this week to erect weather protection around the dosing unit and lime bag. The project engineer reports the unit will be back in service on 16/4/2019.

Signed 

Date.....16/04/2019

(Authorised to sign as representative of Operator)