

Reference Number: BU21101S

Operator: Cabot Carbon Limited

Installation: Barry Silicon-Based Manufacturing Installation

Form Number: A3 / Form Dated 1st February 2006

Reporting of Emissions to Air for the period 1 October 2019 to 31 December 2019

Emission Point	Substance / Parameter	Emission Limit Value [6]	Result [1] [8]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty +/- [5]
A1	Chlorine	10 mg/m ³	1.7 mg/m ³	US EPA Method 26A	06-11-2019 1003-1033, 1037-1107, 1110-1140, 1145-1215, 1220-1250hrs	MCERTS / UKAS	+/- 0.2 mg/m ³
A1	Chlorine	10mg/m ³	2.2 mg/m ³	US EPA Method 26A	Annual average of CY19Q1(2.1) CY19Q2 (2.0) CY19Q3(2.8) CY19Q4 (1.7)	MCERTS / UKAS	+/- 0.3 mg/m ³
A1	Chloromethanes (as methyl chloride)	50mg/m ³	2.7 mg/m ³	BS EN 13649	06-11-2019 1000-1100, 1102-1202, 1204-1304hrs	MCERTS / UKAS	+/- 0.2 mg/m ³
A1	Hydrogen chloride	10mg/m ³	2.5 mg/m ³	TGN M22[2]	06-11-2019 1000-1100, 1100-1200, 1200-1300hrs	MCERTS / UKAS	+/- 0.4 mg/m ³

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.

[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.

[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. The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.

[6] Corrected to 273K, 101.3Kpa.

[7] Annual Average reported CY19 Q1-Q4 inclusive

Signed

(authorised to sign as representative of Operator)

Date: 30th January 2020

Installation: Barry Silicon-Based Manufacturing Installation

Form Number: W1 / Form Dated 1st February 2006**Reporting of Emissions to Water (other than to Sewer) for the period from 1 October 2019 to 31 December 2019**

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
W1	Oil and grease	5mg/l ^[6]	<0.6	IR Spectrometry - W-TEC-IR	27.11.19 0730hrs	UKAS	+/- 20.0%
	BOD ₅	20mg/l ^[6]	<1	ISBN 011 7522120	27.11.19 0730hrs	UKAS	+/- 23.6%
	pH	>5, <9 ^[7]	7.5	ISBN: 011 7514284	27.11.19 0730hrs	UKAS	+/- 20.3%
W2	Oil and grease	5mg/l ^[6]	<0.6	IR Spectrometry - W-TEC-IR	27.11.19 0735hrs	UKAS	+/- 20.0%
	BOD ₅	20mg/l ^[6]	<1	ISBN 011 7522120	27.11.19 0735hrs	UKAS	+/- 23.6%
	pH	>5, <9 ^[7]	7.7	ISBN: 011 7514284	27.11.19 0735hrs	UKAS	+/- 20.3%
W3	Oil and grease	5mg/l ^[6]		IR Spectrometry - W-TEC-IR	No sample	UKAS	
	BOD ₅	20mg/l ^[6]		ISBN 011 7522120	No sample	UKAS	
	pH	>5, <9 ^[7]		ISBN: 011 7514284	No sample	UKAS	

[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.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. W3: Despite several attempts, no samples could be taken due to river level above outfall point (periods of heavy rainfall)

[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. The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.

[6] The emission limit value for Oil and grease, and BOD₅, is expressed as a maximum individual value.

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

[8] ALS Environmental has obtained UKAS accreditation for all test method.

Signed

(authorised to sign as representative of Operator)

Date: 30th January 2020