

Permit Reference Number: BU2110IS

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 April 2021 to 30 June 2021

Emission Point	Substance / Parameter	Emission Limit Value ^[6] ^[7]	Result ^[1] [Note A]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation / Certification ^[4]	Uncertainty +/- ^[5]
A1	Chlorine	10mg/m ³	5.4 mg/m ³	US EPA Method 26A	13.05.2021: 10:00-10:30, 10:35-11:05, 11:10-11:40, 11:48-12:18, 12:26-12:56	MCERTS / UKAS	+/- 0.50 mg/m ³
A1	Chloromethanes (as methyl chloride)	50mg/m ³	5.06 mg/m ³	BS EN 13649	13.05.2021: 10:00-11:00, 11:05-12:10, 12:20-13:20,	MCERTS / UKAS	+/- 0.98 mg/m ³
A1	Hydrogen chloride	10mg/m ³	5.93 mg/m ³	TGN M22	13.05.2021: 10:00-11:00, 11:01-12:01, 12:02-13:02	MCERTS / UKAS	+/- 0.39 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] Results calculated as the average of 5 consecutive, 30-minute samples taken every quarter.

[Note A]: Results are given as averages being more representative, as agreed with NRW.



Signed

Date: 22.07.2021

(authorised to sign as representative of the Operator)

Permit Reference Number: BU2110IS

Operator: Cabot Carbon Limited

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 April 2021 to 30 June 2021

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 - EA Test 362 ISBN 0117517283	05.05.2021 14:50hrs	UKAS	+/- 20.0%
	BOD ₅	20mg/l ^[6]	4	ISBN 011 7522120	05.05.2021 14:50hrs	UKAS	+/- 23.6%
	pH	>5, <9 ^[7]	7.9	BS 6068-2.50:1995	05.05.2021 14:50hrs	UKAS	+/- 20.3%
W2	Oil and grease	5mg/l ^[6]	<0.6	IR Spectrometry - EA Test 362 ISBN 0117517283	05.05.2021 14:50hrs	UKAS	+/- 20.0%
	BOD ₅	20mg/l ^[6]	<1	ISBN 011 7522120	05.05.2021 14:50hrs	UKAS	+/- 23.6%
	pH	>5, <9 ^[7]	8.1	BS 6068-2.50:1995	05.05.2021 14:50hrs	UKAS	+/- 20.3%
W3	Oil and grease	5mg/l ^[6]	<0.6	IR Spectrometry - EA Test 362 ISBN 0117517283	05.05.2021 15:05hrs	UKAS	+/- 20.0%
	BOD ₅	20mg/l ^[6]	3	ISBN 011 7522120	05.05.2021 15:05hrs	UKAS	+/- 23.6%
	pH	>5, <9 ^[7]	8.1	BS 6068-2.50:1995	05.05.2021 15:05hrs	UKAS	+/- 20.3%

[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.

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] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[4] 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.

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

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

[7] The Environment Agency National Testing Laboratory at Shawcross in Exeter has obtained UKAS accreditation for the oil and grease test method.

Signed
(authorised to sign as representative of the Operator)

Date: 22.07.2021