

Reporting of emissions to water (other than to sewer) and land for the period from

01-Jan-19 to 31-Dec-19

Emission Point	Substance /Parameter	Emission/ Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date & Times ^[3]	Uncertainty [4][5]
W1	Flow rate	No limit set	Instantaneous	565	MCERTS self monitoring of effluent flow scheme	18-01-19 10:46	± 8.0%
W1	Maximum daily flow [6]	17,500 m ³ /day	24 hours	5132	MCERTS self monitoring of effluent flow scheme	26-12-19	± 8.0%
W1	Mean daily flow	No limit set	24 hours	1877	MCERTS self monitoring of effluent flow scheme	--	± 8.0%
W1	pH	6.5 (min) 8.5 (max)	Daily average	6.80 8.21	MCERTS approved instrumentation or equivalent	29.9.19 16.7.19	± 1.0%
W1	Temperature	25°C	Daily average	24.9	Standard temperature sensor	18.7.19	± 0.0%
W1	Chemical oxygen demand (COD) [7]	No limit set	24-hour flow proportional composite sample	39.5	COD: BS ISO 15705	29.4.19	± 2.9%
W1	Biochemical oxygen demand (BOD)	10 mg/l	24-hour flow proportional composite sample	2.3	BS EN 1899-1	6.6.19	± 14.5%
W1	Total Suspended Solids	25 mg/l	Daily	13.2	BS EN 872	18.7.19	± 13.5%
W1	Ammonia as N	1 mg/l	Daily	0.64	BS EN ISO 11732 or ISBN 0117516139	7.1.19	± 12.5%
W1	Total nitrogen	No limit set	24 hour flow proportional composite sample	6.27	BS EN ISO 11905-1	20.11.19	± 11.2%
W1	Total phosphorous	No limit set	24 hour flow proportional composite sample	1.69	BS EN ISO 6878-1	19.9.19	± 15.5%
W1	Other compounds: AOX	No limit set	24 hour flow proportional composite sample	0.29	DIN EN ISO 9562	8.11.19	± 15.5%

Emission Point	Substance /Parameter	Emission/ Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date & Times ^[3]	Uncertainty [4][5]
W1	Priority Hazardous Substances [6]	--	24 hour flow proportional composite sample	None	GCMS analysis at UKAS accredited laboratory	10.12.19	
W1	Zn (total and dissolved) and its compounds	--	24 hour flow proportional composite sample	18.0	BS EN ISO 15586:2003	10.12.19	
W1	Cu (total and dissolved) and its compounds	--	24 hour flow proportional composite sample	1.6	BS EN ISO 15586:2003	10.12.19	
W1	Cd (total and dissolved) and its compounds	--	24 hour flow proportional composite sample	<0.1	BS EN ISO 15586:2003	10.12.19	
W1	Pb (total and dissolved) and its compounds	--	24 hour flow proportional composite sample	<2.0	BS EN ISO 15586:2003	10.12.19	
W1	Hg (total and dissolved) and its compounds	--	24 hour flow proportional composite sample	0.013	BS EN ISO 15586:2003	10.12.19	
W1	Ni (total and dissolved) and its compounds	--	24 hour flow proportional composite sample	1.6	BS EN ISO 15586:2003	10.12.19	

- [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' 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 Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [5] In the case of results for the Hazardous pollutants screen supply the quoted Limit of Detection (LOD) with the result.
- [6] In the case of daily flow supply the maximum and mean figure for each month within the 6 month reporting window.
- [7] If TOC is already monitored as a key process parameter, there is no need to measure COD, however the correlation between the two parameters must be established and checked regularly.
- [8] Hazardous pollutants screen substances are: Chlorpyrifos, Cypermethrin, Endosulphan (A & B), 4-nonylphenols & Nonylphenol ethoxylates, PCP, TBT

Signed

Date 13th Jan 2020