

Permit Number: LP3439HM
Facility: Roath Dock Wasye Treatment Centre

Operator: Castle Waste Services Ltd
Form Number: Sewer1 / 2023 Q1 Rev. 2

Reporting of emissions to sewer for the period from 01/01/2023 to 31/03/2023

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
S1	Flow Rate	None set	None set	5 litres/sec	As agreed with Natural Resources Wales	Various	
S1	Adsorbable Organically Bound Halogens (AOX)	1 mg/l	None set	3.39 mg/l	EN ISO 9562	02/02/23	
S1	Benzene, Toluene, Ethylbenzene, Xylene (BTEX)	None set	None set	Total = <0.263 mg/l	EN ISO 15680	02/02/23	
S1	Free Cyanide (CN)	0.1 mg/l	None set	<0.05 mg/l	Various EN standards available (e.g. EN ISO 14403-1 and -2)	Various	
S1	Hydrocarbon Oil Index (HOI)	10 mg/l	None set	0.118 mg/l	EN ISO 9377-2	02/02/23	
S1	Arsenic (As)	0.1 mg/l	None set	0.019 mg/l	Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)	11/01/23	
S1	Cadmium (Cd)	0.1 mg/l	None set	0.043 mg/l		18/01/23	
S1	Chromium (Cr)	0.3 mg/l	None set	0.7 mg/l		18/01/23	
S1	Copper (Cu)	0.5 mg/l	None set	1.7 mg/l		06/01/23	
S1	Nickel (Ni)	1 mg/l	None set	1.072 mg/l		18/01/23	
S1	Lead (Pb)	0.3 mg/l	None set	0.66 mg/l		12/01/23	
S1	Zinc (Zn)	2 mg/l	None set	1.27 mg/l		06/01/23	
S1	Manganese (Mn)	No limit set	None set	0.015 mg/l		16/01/23	
S1	Hexavalent Chromium (Cr(VI))	0.1 mg/l	None set	0.364 mg/l	Various EN standards available (e.g. EN ISO 10304-3, EN ISO 23913)	12/01/23	
S1	Mercury (Hg)	10 µg/l	None set	0.577 µg/l	Various EN standards available (e.g. EN ISO 17852, EN ISO 12846)	22/03/23	
S1	PFOA	No limit set	None set	43.4 ng/l	No EN standard available	02/02/23	

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
S1	PFOS	No limit set	None set	<32.5 ng/l	No EN standard available	02/02/23	

[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 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.

Signed [REDACTED]

Date.....07/06/2023.....