

Permit Number: LP3439HM
 Facility: Roath Dock Waste Treatment Centre

Operator: Castle Waste Services Ltd
 Form Number: Sewer1 / 2024 Q1

Reporting of emissions to sewer for the period from 01/01/2024 to 31/03/2024

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
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	0.098 mg/l	EN ISO 9562	03/01/2024	
S1	Benzene, Toluene, Ethylbenzene, Xylene (BTEX)	None set	None set	<1 mg/l	EN ISO 15680	Various	
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	0.9 mg/l	EN ISO 9377-2	25/01/24	
S1	Arsenic (As)	0.1 mg/l	None set	0.037 mg/l	Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)	07/03/24	
S1	Cadmium (Cd)	0.1 mg/l	None set	0.014 mg/l		23/02/24	
S1	Chromium (Cr)	0.3 mg/l	None set	0.243 mg/l		25/03/24	
S1	Copper (Cu)	0.5 mg/l	None set	0.746 mg/l		18/03/24	
S1	Nickel (Ni)	1 mg/l	None set	1.762 mg/l		25/03/24	
S1	Lead (Pb)	0.3 mg/l	None set	1.44 mg/l		23/02/24	
S1	Zinc (Zn)	2 mg/l	None set	1.251 mg/l		25/03/24	
S1	Manganese (Mn)	No limit set	None set	0.058 mg/l		19/02/24	
S1	Hexavalent Chromium (Cr(VI))	0.1 mg/l	None set	1.49 mg/l	Various EN standards available (e.g. EN ISO 10304-3, EN ISO 23913)	11/03/24	
S1	Mercury (Hg)	10 µg/l	None set	<0.00723 mg/l	Various EN standards available (e.g. EN ISO 17852, EN ISO 12846)	21/02/24	
S1	PFOA	No limit set	None set	3.77 ng/l	No EN standard available	11/03/24	

Emission							
Emission Point	Substance / Parameter	Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
S1	PFOS	No limit set	None set	7.12 ng/l	No EN standard available	11/03/24	

[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.....30/04/2024.....