Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

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Accredited to ISO/IEC 17025:2017

Northern Ireland Water Ltd

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations (Northern Ireland) 2017	The testing is in accordance with the Drinking Water Testing Specification (DWTS)
WATERS	Microbiological Tests Enumeration of:	Documented In-House Methods based on The Microbiology of Drinking Water as follows:
Potable, surface and ground waters	Coliforms, confirmed *Escherichia coli*, confirmed	Test No 4 WM 036 MPN method using IDEXX Colilert (MDW 2016, Part 4)
Potable and ground waters	*Clostridium perfringens,* confirmed	Test No 4 WM 037 using Membrane Filtration and acid phosphatase (MDW 2021, Part 6)
Potable and ground waters	Enumeration and Identification of Coliforms and E coli bacteria	Test No 4 WM 044 by Membrane Filtration using MLGA (MDW 2016, Part 4)
Potable and ground waters	Colony Count At 37 °C for 44 hours At 22 °C for 68 hours	Test No 4 WM 029 using pour plate (MDW 2020, Part 7)
Potable, surface and ground waters	Faecal Enterococci, presumptive and confirmed	Test No 4 WM 034 using Membrane Filtration (MDW 2012, Part 5)
Potable, surface, ground water and raw waters	Cryptosporidium Oocysts	Method No 4 WM 045 using Filta max x-press and immuno-magnetic separation based on MDW 2010, Part 14

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Microbiological Tests (cont'd)	Documented In-House Methods based on The Microbiology of Drinking Water as follows:
Surface and ground waters	*Salmonella,* spp confirmed	Test No 4 WM 035 using membrane filtration, including API confirmation (MDW 2006, part 9)
Partially Treated Sewage and Treated Sewage	Enumeration of Coliforms and *Escherichia coli*	Test No 4 SM 047 MPN method using IDEXX Colilert (MDW 2016, Part 4)
	Chemical Tests	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:
WATERS Trade Effluent, Crude Sewage, Landfill Leachate, and Final Sewage Effluent	Ammonia Soluble Reactive Phosphorus Nitrite Total Oxidised Nitrogen Chloride Alkalinity Total Nitrogen Total Phosphorus	Test Procedure 4SM 051 by discrete analyser
Trade Effluents, Final Sewage Effluent, Landfill Leachate and Water Treatment Discharges	Total Metals: Aluminium Iron Copper Zinc Lead Arsenic Cadmium Chromium Nickel Boron	Test procedure 4SM059 using ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows: (cont'd)
Trade Effluents, Crude Sewage, Final Sewage Effluent, Landfill Leachate and Water Treatment Discharges	COD	Test Procedure No 4 SM 003 ISBN (011 751 915 4, 1986)
Trade Effluents and Waste Water Treatment Discharges	COD (settled)	Test Procedure No 4 SM 003 ISBN (011 751 915 4, 1986)
Trade Effluents, Final Sewage Effluent and Crude Sewage and Landfill Leachate	Suspended Solids	1) Test Procedure No 4 SM 005 (trade effluent)
Crude Sewage, Final Sewage effluent, water treatment discharges	Suspended Solids	2) Test Procedure No 4 SM 012 (sewage) ISBN (011 751 957, 1980)
Trade Effluents, Landfill Leachate, Crude and final sewage effluent	pH	Test Procedure No 4 SM 054 using the Mettler Toledo S80 Sevenmulti
Crude and Final Sewage Effluent, Trade Effluent and Water Treatment Works Effluent	pH	Method 4SM058 using Orion Star A111 pH meter
Crude Effluent and Trade Effluents	Hexane extractable material	Test Procedure 4 SM 048 by gravimetry
Crude Effluent, final sewage effluent and Trade Effluents	BOD	Test Procedure No 4 SM 050 ISBN (011 752 212 0,1988)
Trade Effluents, Landfill Leachate, Crude and Final Sewage Effluent and Water Treatment Works Effluent	pH @ 25°C and Electrical Conductivity @ 25°C	Test Procedure no. 4 SM 063 using the SEAL automated analyser

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows: (cont'd)
Crude Effluent and Final Sewage Effluent	Ammonia Soluble Reactive Phosphorus Nitrite Total Oxidised Nitrogen Chloride Total Alkalinity Total Nitrogen Total Phosphorus Nitrate (as N) by calculation,	Test Procedure 4 SM 064 by discrete analyser
Trade Effluent and Landfill Leachate	Ammonia Chloride Total Nitrogen Total Phosphorus	Test Procedure 4 SM 064 by discrete analyser
Treated sewage and final effluent, Landfill leachate, Untreated sewage / wastewater inlet & Process water (industrial)	Total: Aluminium Boron Cadmium Chromium Copper Iron Manganese Nickel Lead Zinc	Test Procedure 4 SM 062 by ICP-OES
Trade effluent	Total: Aluminium Boron Cadmium Chromium Copper Iron Manganese Nickel Lead	Test Procedure 4 SM 062 by ICP-OES

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows: (cont'd)
Treated sewage, and final effluent & Process water (industrial)	Dissolved: Aluminium Copper Iron Nickel Lead	Test Procedure 4 SM 062 by ICP-OES
END		