

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>4040</b> Accredited to <b>ISO/IEC 17025:2017</b></p>	<b>Department of Agriculture, Environment and Rural Affairs (NI)</b> <b>Issue No: 047    Issue date: 16 October 2020</b>	
	<b>Environment, Marine and Fisheries Group Laboratory</b> 17 Antrim Road Lisburn Co Antrim Northern Ireland BT28 3AL	<b>Contact: Caroline Steele</b> <b>Tel: +44 (0) 28 9262 3049</b> <b>E-Mail: <a href="mailto:quality.lisburn@daera-ni.gov.uk">quality.lisburn@daera-ni.gov.uk</a></b> <b>Website: <a href="http://www.daera-ni.gov.uk">www.daera-ni.gov.uk</a></b>

**Testing performed by the Organisation at the locations specified below**

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> 17 Antrim Road Lisburn Co Antrim Northern Ireland BT28 3AL  <b>Local contact</b> Caroline Steele  Tel: +44 (0)28 9262 3049 E-Mail: <a href="mailto:quality.lisburn@daera-ni.gov.uk">quality.lisburn@daera-ni.gov.uk</a>	<b>Support Functions:</b> Quality System Quality Audit Administration  <b>Sampling And Testing:</b> Environmental Analysis Water Sampling  Physical Testing	A

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Rivers/Streams	Sampling and on-site testing	B
Landfill Sites	Sampling and on-site testing	C
Industrial Premises	Sampling and on-site testing	D
Freshwater Lakes	Sampling and on-site testing	F
Marine Waters	Sampling	G



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>WATERS and EFFLUENTS</b>	<u>Chemical and Physical Tests</u>		
Surface Water, Ground Water, Treated Sewage Effluent, Landfill Leachate and Trade Effluent	Conductivity	Documented in-house procedure M0387 based on DOE/SCA (MEWAM) The measurement of Electrical Conductivity and the Laboratory determination of the pH Value of Natural, Treated and Wastewaters (1978) using Conductivity meter	A
Surface Water, Ground Water, Untreated Sewage, Treated Sewage Effluent, Landfill Leachate and Trade Effluent	pH	Documented in-house procedure M0387 based on DOE/SCA (MEWAM) The measurement of Electrical Conductivity and the Laboratory determination of the pH Value of Natural, Treated and Wastewaters (1978) using pH meter	A
Surface Water	Dissolved Oxygen	Documented in-house procedure M0165 based on DOE/SCA (MEWAM) Dissolved Oxygen in Natural and Waste Waters (1979) using Manual Titration	A
Surface Water, Wastewaters and Trade Effluent	Biochemical Oxygen Demand (BOD)	Documented in-house procedure M0145 using Rohasys robot	A
Surface Water	Dissolved Organic Carbon (Non-Purgeable Organic Carbon)	Documented in-house procedure M0345 by high temperature catalytic combustion and infrared detection	A
Ground Water	Total Organic Carbon	Documented in-house procedure M0345 by high temperature catalytic combustion and infrared detection	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>		
Surface Water, Wastewaters and Trade Effluent	Suspended Solids	Documented in-house procedure M0152 based on DOE/SCA (MEWAM) Suspended, Settleable, and Total Dissolved Solids in Waters and Effluents (1980) using Robotic weighing after conventional filtration	A
Wastewaters	Chloride	Documented in-house procedure M0173 by silver coulometry	A
Waste Water	Metals, Dissolved	Documented in-house method M0410 by ICP-OES Suite 1	A
	Aluminium Arsenic Calcium Cadmium Chromium Copper Iron Potassium Magnesium Manganese Sodium Nickel Lead Sulphur Zinc Sulphate (by calculation)		



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WATERS and EFFLUENTS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>		
River Water and Landfill Site Borehole Ground Water	Metals, Total and Dissolved Aluminium Arsenic Calcium Cadmium Chromium Copper Iron Potassium Magnesium Manganese Sodium Nickel Lead Sulphur Zinc Sulphate (by calculation)	Documented in-house method M0410 by ICP-OES Suite 1	A
Industrial Effluent	Metals, Total and Dissolved Aluminium Arsenic Calcium Cadmium Chromium Copper Iron Potassium Magnesium Manganese Nickel Lead Sulphur Zinc Sulphate (by calculation)	Documented in-house method M0410 by ICP-OES Suite 1	A



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<p>WATERS and EFFLUENTS (cont'd)</p> <p>River Water (containing no appreciable solids) and Ground Water (from extraction wells only)</p>	<p><u>Chemical and Physical Tests</u> (cont'd)</p> <p>Metals, Total and Dissolved</p> <p>Aluminium Boron Barium Calcium Iron Lithium Potassium Magnesium Manganese Sodium Sulphur Strontium Sulphate (by calculation)</p>	<p>Documented in-house method M0410 by ICP-OES Suite 2</p>	<p>A</p>



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WATERS and EFFLUENTS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>		
Surface Water	Metals, Total and Dissolved: Arsenic Cadmium Calcium Chromium Copper Iron Lead Manganese Nickel Vanadium Zinc	Documented in-house procedure M0259 by ICP-MS	A
Ground Water	Metals, Total: Arsenic Cadmium Chromium Copper Lead Nickel Zinc	Documented in-house procedure M0259 by ICP-MS	A
Surface Water	Metals, Total and Dissolved: Antimony Arsenic Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Selenium Vanadium Zinc	Documented in-house procedure M0405 by ICP-MS	A
Surface Water	Metals, Total: Silver	Documented in-house procedure M0405 by ICP-MS	A



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WATERS and EFFLUENTS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>		
Ground Water	Metals, Total: Antimony Arsenic Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Selenium Silver Vanadium Zinc	Documented in-house procedure M0405 by ICP-MS	A
Ground Water	Metals, Dissolved: Antimony Beryllium Cobalt Molybdenum Selenium	Documented in-house procedure M0405 by ICP-MS	A
Surface Water	Dissolved and Total Mercury	Documented in-house procedure M0318 by cold vapour atomic fluorescence	A
Marine Water	Dissolved Mercury	Documented in-house procedure M0318 by cold vapour atomic fluorescence	A
Treated Sewage Effluent and Trade Effluent	Total Mercury	Documented in-house procedure M0318 by cold vapour atomic fluorescence	
Trade Effluent and Landfill Leachates	Ammonia	Documented in-house procedure M0172 by steam distillation and automated titrimetry	A



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WATERS and EFFLUENTS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>		
Saline Water	Total Oxidized Nitrogen (TON) Nitrite Soluble Reactive Phosphorus Ammonia Silicate Nitrate (By Calculation)	Documented in-house procedure M0170 by automated segmented flow analysis	A
Surface Water	Soluble Reactive Phosphorus Ammonia Chloride	Documented in-house procedure M0171 by discrete colorimetric analysis	A
Groundwater	Chloride	Documented in-house procedure M0171 by discrete colorimetric analysis	A
Surface Water & Groundwater	Total Oxidized Nitrogen (TON) Nitrate (by calculation) Nitrite Soluble Reactive Phosphorus Ammonia	Documented in-house procedure M0374 by segmented flow analyser	A
Trade Effluent	Total Phosphorus	Documented in-house procedure M0403 by discrete colorimetric analysis	A
Trade Effluent	Ammonia	Documented in-house procedure M0374 by segmented flow analyser	A
Surface Water	Total Hardness	Documented in-house procedure M0316 by titrimetry	A
Groundwater	Fluoride	Documented in-house procedure M0399 by Ion Selective Electrode	A
Surface Water, Groundwater and Landfill Leachate	Total Alkalinity	Documented in-house procedure M0297 by automated titrimetry	A
Surface Water, Effluents and Groundwater	Field Measurement of pH	Documented in-house procedure M0016	B, C, D





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Freshwater Rivers and Streams Groundwater Effluents	<u>Chemical and Physical Tests</u> Manual Sampling of Freshwater and Effluents for subsequent chemical analysis	Documented in-house procedure M0106	B, C, D
Marine and Inland Surface Waters	Manual sampling of marine and inland surface waters for subsequent microbiological analysis	Documented in-house procedure M0315	B, F, G
Surface Water, Landfill Leachates and Trade Effluent	Chemical Oxygen Demand (COD)	Documented in-house procedure M0411 by spectrophotometry	A
POLLUTANTS AND EFFLUENTS	<u>Chemical and Physical Tests</u>		
	<u>Sampling</u> Manual spot sampling of groundwater from boreholes for landfill leachate impact assessment	Documented in-house procedure M0109	C, D
	<u>Microbiological Tests</u>		
Saline Water and Surface Water	Enumeration: Enterococci	Documented in-house procedure M0269 by membrane filtration	A
Surface Water and Saline Water	E. coli	Documented in-house procedure M0375 by membrane filtration, using TBX media	A
END			