

Schedule of Accreditation



Organisation Name	Cork County Council - Water Quality Laboratory
Trading As	
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Accreditation Standard	ISO 17025 T
Date Initially Awarded	09/12/2014
Scope Classification	Biological and veterinary testing
Scope Classification	Chemical testing
Services available to the public ¹	No

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered		
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)		
	Name	Address
1	Head Office	Inniscarra, Cork, P31 X738

Scope of Accreditation

Head Office

Biological and Veterinary Testing

Category: A

Biology/veterinary field - Tests	Test name	Technique	Matrix	Equipment	Std. reference
803 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .01 Culture of bacteria	MP 2(a) Enumeration of Coliforms & E. Coli	Simultaneous detection and confirmation of total coliforms & E coli in fresh water : Colilert-18	Waters : Potable waters Waters: Environmental	Colilert-18 test kit	ISO 9308-2:2012(E) Water quality - Enumeration of Escherichia coli and coliform bacteria - Part 2: Most probable number method.
	MP 2(b) Enumeration of Coliforms & E. Coli	Detection and confirmation of E coli in marine waters : Colilert-18	Waters: Marine waters	Colilert-18 test kit	ISO 9308-2:2012(E) Water quality – Enumeration of Escherichia coli and coliform bacteria – Part 2: Most probable number method.
	MP 6 Isolation and enumeration of Clostridia perfringens by membrane filtration	Isolation and enumeration using Membrane Filtration	Waters : Potable waters Waters: Environmental	Membrane filtration	Bisson, J.W. and Cabelli, V.J. (1979) Applied and Environmental Microbiology, Vol. 37, No. 1 p55 to 66.
	MP 7(a) Enumeration of Intestinal Enterococci	Membrane filtration of Intestinal Enterococci	Waters : Potable waters Waters: Environmental	Membrane filtration	I.S. EN ISO 7899-2:2000 Water Quality – Detection and Enumeration of

				Intestinal Enterococci – Part 2: Membrane Filtration Method (ISO 7899-2:2000).	
	MP 7(b) Enumeration of Intestinal Enterococci		Waters: Marine waters	Membrane filtration	I.S. EN ISO 7899-2:2000 Water Quality – Detection and Enumeration of Intestinal Enterococci – Part 2: Membrane Filtration Method (ISO 7899-2:2000).
	MP 9 Enumeration of heterotrophic bacteria at 22°C	Colony Count by inoculation in a nutrient agar.	Waters : Potable waters Waters: Environmental	Pour plate method	I.S. EN ISO 6222:1999 Water Quality – Enumeration of culturable micro-organisms – colony count by inoculation in a nutrient agar culture medium (ISO 6222:1999).

Head Office

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .05 Inorganic	Analysis of Ammonia using the Gallery Plus Discrete Analyser	Ammonia	0.020 - 0.500 mg/N/l	potable, bore and other waters	Gallery Plus Discrete Analyser. Spectrophotometry.	ISO 15923-1:2013 Water Quality – Determination of selected parameters by discrete analysis systems Part 1: Ammonium, nitrate, nitrite, chloride, orthophosphate, sulfate and silicate with photometric detection. / CP No. 21(A)
	Analysis of Chloride using the Gallery Plus Discrete Analyser	Chloride	10 - 100 mg/l extended to 200 mg/l by dilution	potable, bore and other waters	Gallery Plus Discrete Analyser. Spectrophotometry	ISO 15923-1:2013 Water Quality – Determination of selected parameters by discrete analysis systems Part 1: Ammonium, nitrate, nitrite, chloride, orthophosphate, sulfate and silicate with photometric detection. / CP No. 21(D)
	Analysis of Fluoride using the Gallery Plus Discrete Analyser	Fluoride	0.1 - 1.0 mg/l extended to 2.0 mg/l by dilution	potable, bore and other waters	Gallery Plus Discrete Analyser. Spectrophotometry	EPA 340.3 Fluoride (Colorimetric, Automated Complexone), 1971. / CP No. 21(F)

Analysis of Nitrite using the Gallery Plus Discrete Analyser	Nitrite	0.004 - 0.100 mg N/l	potable, bore and other waters	Gallery Plus Discrete Analyser. Spectrophotometry.	ISO 15923-1:2013 Water Quality – Determination of selected parameters by discrete analysis systems Part 1: Ammonium, nitrate, nitrite, chloride, orthophosphate, sulfate and silicate with photometric detection. / CP No. 21(B)
Analysis of Orthophosphate as P using the Gallery Plus Discrete Analyser	Orthophosphate as P	0.010 - 0.250 mg P/l	potable, bore and other waters	Gallery Plus Discrete Analyser. Spectrophotometry.	ISO 15923-1:2013 Water Quality – Determination of selected parameters by discrete analysis systems Part 1: Ammonium, nitrate, nitrite, chloride, orthophosphate, sulfate and silicate with photometric detection./ CP No. 21(C)
Analysis of pH, conductivity and turbidity by Radiometer/Waterlab	Conductivity	20-1000µS/cm	potable , bore and other waters	Analysis of pH/Conductivity/Turbidity by Radiometer/Waterlab	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 2510.
	pH	4-10 pH units	potable , bore and other waters	Analysis of pH/Conductivity/Turbidity by Radiometer/Waterlab	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 4500-H+. / CP No. 16
	Turbidity	0.1-1000 NTU	potable , bore and other waters	Analysis of pH/Conductivity/Turbidity by Radiometer/Waterlab	Standard Methods for the examination of Water and Wastewater 23rd

					Edition, 2017, 2130. / CP No. 16
Analysis of Sulphate using the Gallery Plus Discrete Analyser	Sulphate	5 - 100 mg/l extended to 200 mg/l by dilution	potable, bore and other waters	Gallery Plus Discrete Analyser. Spectrophotometry	ISO 15923-1:2013 Water Quality – Determination of selected parameters by discrete analysis systems Part 1: Ammonium, nitrate, nitrite, chloride, orthophosphate, sulfate and silicate with photometric detection. / CP No. 21(E)
Analysis of TOC using the IL550 TOC-TN analyser	Total Organic Carbon	0.5-10.0mg/l	potable , bore and other waters	Analysis of TOC using IL550 TOC-TN Analyser	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 5310(B). / CP No. 17
Analysis of TON-N using the Gallery Plus Discrete Analyser	TON-N	1-10 mg/l extended to 20 mg/l by dilution	potable, bore and other waters	Gallery Plus discrete analyser. Spectrophotometry.	EPA 353.1 Nitrogen, Nitrate-Nitrite (Colorimetric, Automated, Hydrazine Reduction), 1978. / CP No. 21(G)
Apparent Colour	Apparent Colour	5-50 PtCo extended to 500 PtCo by dilution	potable, bore and other waters	Shimadzu UV/Vis Spectrophotometer. Spectrophotometry.	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 2120 / CP No. 24
Determination of Aluminium using ICP-OES	Aluminium	20 - 500 ug/l extended to 1000 ug/l by dilution	Potable waters	Agilent 5110 ICP-OES	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 3120. / CP No. 25(B)

Determination of Copper using ICP-OES	Copper	20 - 500 ug/l extended to 5000 ug/l by dilution	Potable waters	Agilent 5110 ICP-OES	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 3120. / CP No. 25(A)
Determination of Iron using ICP-OES	Iron	20 - 500 ug/l extended to 1000 ug/l by dilution	Potable Waters	Agilent 5110 ICP-OES	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 3120. / CP No. 25(A)
Determination of Manganese using ICP-OES	Manganese	20 - 500 ug/l extended to 1000 ug/l by dilution	Potable waters	Agilent 5110 ICP-OES	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 3120. / CP No. 25(A)
Determination of Nitrate by Calculation	NO3-N	1 - 9.9 mg/l N extended to 19.9 mg/l N by dilution. 4.43 - 43.8 mg/l NO3 extended to 88.1 mg/l NO3 by dilution.	potable, bore and other waters	Gallery Plus discrete analyser. Spectrophotometry.	CP No. 21(H)
True Colour	Colour	5 - 50 PtCo units extended to 500 PtCo by dilution	portable, bore and other waters	Shimadzu UV/Vis Spectrophotometer. Spectrophotometry.	Standard Methods for the examination of Water and Wastewater 23rd Edition, 2017, 2120. / CP No. 22