

Schedule of Accreditation



Organisation Name	Cork County Council - Water Quality Laboratory
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Accreditation Standard	EN ISO/IEC 17025 T
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Date of award of accreditation	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 and E. Coli	Simultaneous detection and confirmation of total coliforms and E. Coli in fresh water: Colilert-18	Waters - Environmental water	Colilert-18 test kit	ISO 9308-2:2012(E) Water quality – Enumeration of Escherichia coli and coliform bacteria – Part 2: Most probable number method.
			Waters - Potable water	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 and E. Coli	Detection and confirmation of E. Coli in marine waters: Colilert-18	Waters - Saline water	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 - Environmental water	Membrane filtration	Bisson, J.W. and Cabelli, V.J. (1979) Applied and Environmental Microbiology, Vol. 37, No. 1 p55 to 66.
			Waters - Potable water	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 - Environmental water	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 - Potable water	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 22oC	Colony count by inoculation in a nutrient agar	Waters - Saline water	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).
			Waters - Environmental water	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).
			Waters - Potable water	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	0.02 to 1.0 mg/l N extended to 2.0 mg/l by dilution	Bore Waters	Gallery Plus Discrete Analyser Spectrophotometer	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)
			0.02 to 1.0 mg/l N extended to 2.0 mg/l by dilution	Other waters	Gallery Plus Discrete Analyser Spectrophotometer	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)
			0.02 to 1.0 mg/l N extended to 2.0 mg/l	Waters for potable and domestic	Gallery Plus Discrete Analyser	ISO 15923-1:2013 Water Quality -

		by dilution	purposes	Spectrophotometer	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 to 100 mg/l extended to 200 mg/l by dilution	Bore 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)
		10 to 100 mg/l extended to 200 mg/l by dilution	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)

		10 to 100 mg/l extended to 200 mg/l by dilution	Waters for potable and domestic purposes	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 to 2.0 mg/l extended to 3.0 mg/l by dilution	Bore Waters	Gallery Plus Discrete Analyser Spectrophotometer	EPA 340.3 Fluoride (Colorimetric, Automated Complexone), 1971./CP No. 21(F)
		0.1 to 2.0 mg/l extended to 3.0 mg/l by dilution	Other waters	Gallery Plus Discrete Analyser Spectrophotometer	EPA 340.3 Fluoride (Colorimetric, Automated Complexone), 1971./CP No. 21(F)
		0.1 to 2.0 mg/l extended to 3.0 mg/l by dilution	Waters for potable and domestic purposes	Gallery Plus Discrete Analyser Spectrophotometer	EPA 340.3 Fluoride (Colorimetric, Automated Complexone), 1971./CP No. 21(F)
Analysis of Nitrite using the Gallery Plus Discrete Analyser	Nitrite	0.004 to 0.100 mg/l N	Bore 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)
		0.004 to 0.100 mg/l N	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)
		0.004 to 0.100 mg/l N	Waters for potable and domestic purposes	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 to 0.250 mg/l P	Bore 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)
		0.010 to 0.250 mg/l P	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)
		0.010 to 0.250 mg/l P	Waters for potable and domestic purposes	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 by ISE	pH	4 to 10 pH units	Bore Waters	ISE	Standard Methods for the examination of Water and Wastewater 24th Edition 2023, 4500-H+/CP No. 5
		4 to 10 pH units	Other waters	ISE	Standard Methods for

					the examination of Water and Wastewater 24th Edition 2023, 4500-H+/CP No. 5
		4 to 10 pH units	Waters for potable and domestic purposes	ISE	Standard Methods for the Examination of Water and Wastewater 24th Edition 2023, 4500-H+/CP No. 5
Analysis of pH, Conductivity and Turbidity by Mantech MT-30 Robotic Analyser	Conductivity	20 to 2200 $\mu\text{S}/\text{cm}$	Bore waters	Mantech MT-30 Robotic Analyser	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2510./CP No. 26
		20 to 2200 $\mu\text{S}/\text{cm}$	Other waters	Mantech MT-30 Robotic Analyser	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2510./CP No. 26
		20 to 2200 $\mu\text{S}/\text{cm}$	Waters for potable and domestic purposes	Mantech MT-30 Robotic Analyser	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2510./CP No. 26
	pH	4 to 10 pH units	Bore waters	Mantech MT-30 Robotic Analyser	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 4500-H+./CP No. 26
		4 to 10 pH units	Other waters	Mantech MT-30 Robotic Analyser	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 4500-H+./CP No. 26
		4 to 10 pH units	Waters for potable and domestic	Mantech MT-30 Robotic Analyser	Standard Methods for the examination of

			purposes		Water and Wastewater 24th Edition, 2023, 4500-H+./CP No. 26
Analysis of Sulphate using the Gallery Plus Discrete Analyser	Sulphate	5 to 100 mg/l extented to 200 mg/l by dilution	Bore 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)
		5 to 100 mg/l extented to 200 mg/l by dilution	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)
		5 to 100 mg/l extented to 200 mg/l by dilution	Waters for potable and domestic purposes	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 in Drinking Waters using the TOC-L CSH/CSN Analyser	TOC	1-15mg/L	Bore Waters	Shimadzu TOC-L CSH/CSN analyser	Standard Methods for the examinations of Water and Wastewater 24th Edition 2023, 5310B/CP No. 27
		1-15mg/l	Other Waters	Shimadzu TOC-L CSH/CSN analyser	Standard Methods for the examinations of Water and Wastewater 24th Edition 2023, 5310B/CP No. 27
		1-15mg/L	Waters for potable and domestic purposes	Shimadzu TOC-L CSH/CSN analyser	Standard Methods for the examinations of Water and Wastewater 24th Edition 2023, 5310B/CP No. 27
Analysis of TOC in Waters using the TOC-L CSH/CSN Analyser		1 to 15 mg/l	Bore Waters	Shimadzu TOC Analyser TOC-L CSH/CSN	Standard Methods for the examination of Water and Wastewater 24th Edition 2023, - 5310B
		1 to 15 mg/l	Other waters	Shimadzu TOC Analyser TOC-L CSH/CSN	Standard Methods for the examination of Water and Wastewater 24th Edition 2023, - 5310B
		1 to 15 mg/l	Waters for potable and domestic purposes	Shimadzu TOC Analyser TOC-L CSH/CSN	Standard Methods for the examination of Water and Wastewater 24th Edition 2023, - 5310B
Analysis of TON as N using the Gallery Plus	TON as N	1 to 10 mg/l N extended to 20 mg/l	Bore waters	Gallery Plus Discrete Analyser.	EPA 353.1 Nitrogen, Nitrate-Nitrite

Discrete Analyser		N by dilution		Spectrophotometry.	(Colorimetric, automated, Hydrazine Reduction), 1978./CP No. 21(G)
		1 to 10 mg/l N extended to 20 mg/l N by dilution	Other waters	Gallery Plus Discrete Analyser. Spectrophotometry.	EPA 353.1 Nitrogen, Nitrate-Nitrite (Colorimetric, automated, Hydrazine Reduction), 1978./CP No. 21(G)
		1 to 10 mg/l N extended to 20 mg/l N by dilution	Waters for potable and domestic purposes	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 to 50 PtCo units extended to 500 PtCo by dilution	Bore waters	Shimadzu UV/Vis Spectrophotometer. Spectrophotometry.	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2120./CP No. 24
		5 to 50 PtCo units extended to 500 PtCo by dilution	Other waters	Shimadzu UV/Vis Spectrophotometer. Spectrophotometry.	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2120./CP No. 24
		5 to 50 PtCo units extended to 500 PtCo by dilution	Waters for potable and domestic purposes	Shimadzu UV/Vis Spectrophotometer. Spectrophotometry.	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2120./CP No. 24
Determination of Aluminium using ICP-OES	Aluminium	20 to 500 ug/l extended to 1000 ug/l by dilution	Waters for potable and domestic purposes	Agilent 5110 ICP-OES	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 3120./CP No. 25(B)

Determination of Copper using ICP-OES	Copper	20 to 500 ug/l extended to 5000 ug/l by dilution	Waters for potable and domestic purposes	Agilent 5110 ICP-OES	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 3120./CP No. 25(A)
Determination of Iron using ICP-OES	Iron	20 to 500 ug/l extended to 1000 ug/l by dilution	Waters for potable and domestic purposes	Agilent 5110 ICP-OES	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 3120./CP No. 25(A)
Determination of Manganese using ICP-OES	Manganese	20 to 500 ug/l extended to 1000 ug/l by dilution	Waters for potable and domestic purposes	Agilent 5110 ICP-OES	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 3120./CP No. 25(A)
Determination of Nitrate by Calculation	Nitrate	1 to 9.9 mg/l N extended to 19.9 mg/l N by dilution. 4.43 to 43.8 mg/l NO ₃ extended to 88.1 mg/l NO ₃ by dilution.	Bore waters	Gallery Plus Discrete Analyser. Spectrophotometry.	CP No. 21(H)
		1 to 9.9 mg/l N extended to 19.9 mg/l N by dilution. 4.43 to 43.8 mg/l NO ₃ extended to 88.1 mg/l NO ₃ by dilution.	Other waters	Gallery Plus Discrete Analyser. Spectrophotometry.	CP No. 21(H)
		1 to 9.9 mg/l N extended to 19.9 mg/l N by dilution. 4.43 to 43.8 mg/l NO ₃ extended to 88.1 mg/l NO ₃ by dilution.	Waters for potable and domestic purposes	Gallery Plus Discrete Analyser. Spectrophotometry.	CP No. 21(H)
Manual Determination of Conductivity	Conductivity	2 to 2500 μ S/cm	Bore Waters	Conductivity meter and Electrode	Standard Methods for the examination of Water and Wastewater

					24th Edition 2023, 2510/CP No. 11
		2 to 2500 μ S/cm	Other waters	Conductivity meter and Electrode	Standard Methods for the examination of Water and Wastewater 24th Edition 2023, 2510/CP No. 11
		2 to 2500 μ S/cm	Waters for potable and domestic purposes	Conductivity meter and Electrode	Standard Methods for the examination of Water and Wastewater 24th Edition 2023, 2510/CP No. 11
Manual Turbidity	Turbidity	0.5 to 200NTU	Bore Waters	HACH turbidity meter TL2300	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2130/CP No. 8
		0.5 to 200NTU	Other waters	HACH turbidity meter TL2300	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2130/CP No. 8
		0.5 to 200NTU	Waters for potable and domestic purposes	HACH turbidity meter TL2300	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2130/CP No. 8
True Colour	True Colour	5 to 50 PtCo units extended to 500 PtCo by dilution	Bore waters	Shimadzu UV/Vis Spectrophotometer. Spectrophotometry.	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2120./CP No. 22
		5 to 50 PtCo units extended to 500 PtCo by dilution	Other waters	Shimadzu UV/Vis Spectrophotometer. Spectrophotometry.	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023,

			2120./CP No. 22
5 to 50 PtCo units extended to 500 PtCo by dilution	Waters for potable and domestic purposes	Shimadzu UV/Vis Spectrophotometer. Spectrophotometry.	Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2120./CP No. 22