

Schedule of Accreditation



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| Organisation Name | Cork County Council - Water Quality Laboratory |
| Trading As | |
| INAB Reg No | 329T |
| Contact Name | Maureen Cherry |
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| Website | |
| Accreditation Standard | EN ISO/IEC 17025 T |
| Standard Version | 2017 |
| 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 | |
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| 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. | |

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| 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). | |
| | | 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 7(b) Enumeration of Intestinal Enterococci | | 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). | |
| MP 9 Enumeration of heterotrophic bacteria at 22oC | Colony count by inoculation in a nutrient agar | Waters - Environmental water | Pour plate method | I.S. EN ISO 6222:1999 Water Quality – Enumeration of culturable micro-organisms – colony count by inoculation in | |

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| | | | | | 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). | |

Chemical Testing

Category: A

| Chemistry Field - Tests | Test name | Analyte | Range of measurement | Matrix | Equipment/technique | Standard reference/SOP |
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| 766 Environmental testing (inc waters) - .05 Inorganic | Analysis of Ammonia using the Gallery Plus Discrete Analyser | Ammonia | 0.020 to 0.500 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(A) |
| | | | 0.020 to 0.500 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(A) |
| | | | 0.020 to 0.500 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, |

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| | | | | | | 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 | |

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| | | | | | | detection./CP No. 21(D) |
| Analysis of Fluoride using the Gallery Plus Discrete Analyser | Fluoride | 0.1 to 1.0 mg/l extended to 2.0 mg/l by dilution | Bore waters | Gallery Plus Discrete Analyser. Spectrophotometry. | EPA 340.3 Fluoride (Colorimetric, Automated Complexone), 1971./CP No. 21(F) | |
| | | 0.1 to 1.0 mg/l extended to 2.0 mg/l by dilution | Other waters | Gallery Plus Discrete Analyser. Spectrophotometry. | EPA 340.3 Fluoride (Colorimetric, Automated Complexone), 1971./CP No. 21(F) | |
| | | 0.1 to 1.0 mg/l extended to 2.0 mg/l by dilution | Waters for potable and domestic purposes | 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 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. | |

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| | | | | | | 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 | Gallery Plus Discrete Analyser. | ISO 15923-1:2013 Water Quality - |

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| | | | | purposes | Spectrophotometry. | 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 μ S/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 μ S/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 μ S/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 | |

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| | 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 purposes | Mantech MT-30 Robotic Analyser | Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 4500-H+./CP No. 26 | | |
| | | Turbidity | 0.5 to 10 NTU | Bore waters | Mantech MT-30 Robotic Analyser | Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2130./CP No. 26 | |
| | | | 0.5 to 10 NTU | Other waters | Mantech MT-30 Robotic Analyser | Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2130./CP No. 26 | |
| | | | 0.5 to 10 NTU | Waters for potable and domestic purposes | Mantech MT-30 Robotic Analyser | Standard Methods for the examination of Water and Wastewater 24th Edition, 2023, 2130./CP No. 26 | |
| | | Analysis of Sulphate using the Gallery Plus Discrete Analyser | Sulphate | 5 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 |

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| | | | | | | detection./CP No. 21(E) |
| | | | 5 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(E) |
| | | | 5 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(E) |
| | Analysis of TON as N using the Gallery Plus Discrete Analyser | TON as N | 1 to 10 mg/l N extended to 20 mg/l N by dilution | Bore 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 | | | 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 | | | Waters for potable and domestic | Gallery Plus Discrete Analyser. | EPA 353.1 Nitrogen, Nitrate-Nitrite | |

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| | | N by dilution | purposes | Spectrophotometry. | (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 | 1 to 9.9 mg/l N | Bore waters | Gallery Plus Discrete | CP No. 21(H) |

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| Nitrate by Calculation | | 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. | | Analyser. Spectrophotometry. | |
| | | 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 µS/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 µS/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 µS/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 |
| 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, |

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| | | | | | | 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 |