

Accredited Method Details

Please refer to the INAB website www.inab.ie for further details on our scope 275T

Parameter	Method Used	Range	Limit of Detection
pH of Soil / Water	SOP 2004 Hydrogen ion selective electrode	pH 4 – 10	4 pH units
SMP pH of Soil	SOP 2002 Hydrogen ion selective electrode	pH 4 – 10	4 pH units
SMP pH of Soil	SOP 2121 Skalar Automated pH Meter	pH 4 – 10	4 pH units
Organic Matter – Soil	SOP 2007 Furnace	0.1 – 99.9%	0.1%
Morgans Phosphorus – Soil	SOP 2008 Extraction / Colourimetry	1 – 20 mg/l	1 mg/l
Morgans Phosphorus - Soil	SOP 2040 Extraction / Colourimetry Konelab	1 – 250 mg/l	1 mg/l
Morgans Potassium - Soil	SOP 2009 Extraction / Atomic Absorption	25 – 200 mg/l	25 mg/l
COD – Low Range	SOP 2005 Digestion / Colourimetry	5 – 150 mg/l	5 mg/l
COD – High Range	SOP 2005 Digestion / Colourimetry	50 – 5000 mg/l	50 mg/l
BOD	SOP 2006 DO Probe	1 – 1000 mg/L	1 mg/l
Ammonia / Ammonium	SOP 2057 Colourimetry – Konelab	0.01 – 20 as N / 0.01 – 24.4 as NH ₃ / 0.01 – 25.80 mg/l as NH ₄	0.01 mg/l
Total Suspended Solids	SOP 2016 Gravimetric	5- 1000mg/l	5 mg/l
Turbidity	SOP 2022 Turbidity Meter	0.2 – 1000 NTU	0.2 NTU
Alkalinity	SOP 2064 Colourimetry – Konelab	1 – 1000 mg/l	1 mg/l
Chloride	SOP 2065 Colourimetry – Konelab	1 – 500 mg/l	1 mg/l
Sulphate	SOP 2062 Colourimetry – Konelab	2.5 – 500 mg/l	2.5 mg/l
Ortho Phosphate	SOP 2061 Colourimetry – Konelab	0.01 – 10 mg/l PO ₄ / 0.01- 3.26 mg/l P	0.01 mg/l
Conductivity	SOP 2076 Electrometry	10 -1999 µscm ⁻¹	10 µS/cm
Total Oxidised Nitrogen (TON)	SOP 2058 Colourimetry – Konelab	10 – 50 mg/l as N	10 mg/l
Total Oxidised Nitrogen (TON)	SOP 2077 Colourimetry – Konelab	0.5 – 10 mg/l as N	0.5 mg/l
Nitrite	SOP 2059 Colourimetry – Konelab	0.03 – 16.5 mg/l as N / 0.01 – 5 mg/l as NO ₂	0.01 mg/l
Nitrate	SOP 2060 Colourimetry – Konelab	0.5 – 50 mg/l as N / 2.2 – 220 mg/l as NO ₃	0.5 mg/l
Colour	SOP 2063 Colourimetry – Konelab	1 – 500 Pt Co	1 Pt Co
Total Nitrogen	SOP 2075 Persulfate Digestion	0.5 – 25 mg/l	0.5 mg/l
Fluoride	SOP 2069 Colourimetry – Konelab	0.08 – 1.5 mg/l	0.08 mg/l
Total Phosphorus	SOP 2126 ICP-MS	0.01 – 2 mg/l	0.01 mg/l
Aluminium	SOP 2125 ICP-MS	10 – 500 µg/l	10 µg/l
Cadmium	SOP 2125 ICP-MS	0.5 – 100 µg/l	0.5 µg/l
Calcium	SOP 2125 ICP-MS	0.5 – 200 mg/l	0.5 mg/l
Chromium	SOP 2125 ICP-MS	5 – 500 µg/l	5 µg/l
Copper	SOP 2125 ICP-MS	10 – 500 µg/l	10 µg/l
Iron	SOP 2125 ICP-MS	10 – 500 µg/l	10 µg/l
Lead	SOP 2125 ICP-MS	1 – 100 µg/l	1 µg/l
Magnesium	SOP 2125 ICP-MS	0.5 – 200 mg/l	0.5 mg/l
Manganese	SOP 2125 ICP-MS	5 – 500 µg/l	5 µg/l
Nickel	SOP 2125 ICP-MS	2 – 100 µg/l	2 µg/l
Potassium	SOP 2125 ICP-MS	1 – 200 mg/l	1 mg/l
Sodium	SOP 2125 ICP-MS	0.5 – 200 mg/l	0.5 mg/l
Hardness as CaCO ₃ (by calculation)	SOP 2024 ICP-MS	1 -911 mg/l	1 mg/l
Coliforms and <i>E.coli</i>	SOP 2090 Colilert-18	N/A	0 MPN *
Enterococci	SOP 2114 Enterolert-DW	N/A	0 MPN *
Alkalinity	SOP 2129 Blu vision	5-100 mg/l	5 mg/l
Ammonia	SOP 2130 Blu Vision	0.01 – 1.0 mg/l and 0.5 to 20 mg/l as N/ 0.01 – 1.21 mg/l and 0.61 and 24.2 as NH ₃	0.01 mg/l
Chloride	SOP 2131 Blu Vision	1-25 mg/l	1 mg/l
Colour	SOP 2132 Blu Vision	5 – 100 and 25– 500 PtCo	5 PtCo
Nitrite	SOP 2134 Blu Vision	0.03 – 1 mg/l and 0.5 – 10 mg/l as N / 0.1 – 3.29 mg/l and 1.65 – 32.9 as NO ₂	0.03 mg/l
Ortho P as P	SOP 2135 Blu Vision	0.01 – 1 mg/l and 1 – 10 mg/l as P / 0.03 – 3.06 mg/l and 3 – 30.6 as PO ₄	0.01 mg/l
Sulphate	SOP 2136 Blu Vision	2.5 – 50 mg/l and 25-500 mg/l	2.5 mg/l
TON as N	SOP 2137 Blu Vision	1 – 50 mg/l as N	1 mg/l
Nitrate	SOP 2138 Blu Vision	0.5 – 49 mg/l as N / 2.22 – 217.07 mg/l as NO ₃	0.5 mg/l

* - Note: A result of 0 MPN equates to a result of not detected per volume tested.

Uncertainty of Measurement is available upon request, for all INAB accredited tests however is not taken into account for reported results.

Please refer to the IAS website for further details on method specifications.