

# Schedule of Accreditation



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Trading As	
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Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
Date of award of accreditation	19/05/2003
Scope Classification	Chemical testing
Services available to the public <sup>1</sup>	

<sup>1</sup> 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	Cork Laboratory	Hoffman Park, Little Island, Cork, Ireland, T45 PC80

# Scope of Accreditation

## Cork Laboratory

### Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .01 Metal analysis	ICPMS Metals Trace/Dissolved <sup>1234</sup>	Aluminium (µg/l)	5-7500	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
		Antimony (µg/l)	0.1-30	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
		Arsenic (µg/l)	0.2-60	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
		Barium (µg/l)	1.77-300	.01 Water for potable and domestic purposes .99 Other waters	ICP-MS	Documented In-house methods based: USEPA Method 200.8

		Ground water Surface water		(1999) Metals by ICP-MS. EW188
Beryllium (µg/l)	1-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Boron (mg/l)	0.21-6	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Cadmium (µg/l)	0.1-30	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Calcium (mg/l)	1.08-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Chromium (µg/l)	1-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Cobalt (µg/l)	1-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Copper (mg/l)	0.6-9	.01 Water for potable and domestic purposes	ICP-MS	Documented In-house methods based: USEPA Method 200.8

		.99 Other waters Ground water Surface water		(1999) Metals by ICP-MS. EW188
Iron (µg/l)	5-7500	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Lead (µg/l)	0.51-450	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Magnesium (mg/l)	1.11-90	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Manganese (µg/l)	1-1500	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Mercury (µg/l)	0.03-6	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Molybdenum (µg/l)	1-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Nickel (µg/l)	0.5-150	.01 Water for potable and	ICP-MS	Documented In-house methods based:

		domestic purposes .99 Other waters Ground water Surface water		USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Potassium (mg/l)	0.15-60	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Selenium (µg/l)	0.2-60	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Sodium (µg/l)	1.5-450	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Strontium (ug/l)	1-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Tin (µg/l)	1-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
Titanium (µg/l)	1-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188

		Total Hardness by Calculation (mg/l CaCO <sub>3</sub> )	3-330	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Determination of Total Hardness	Documented In-house methods calculation based on APHA 2340B Determination of Total Hardness. EW188
		Vanadium (µg/l)	1-300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
		Zinc (µg/l)	1 - 300	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	ICP-MS	Documented In-house methods based: USEPA Method 200.8 (1999) Metals by ICP-MS. EW188
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	BOD <sup>134</sup>	BOD (mg/l)	1-1300	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent -Trade Waste - Treated/Effluent	5-day BOD/cBOD	Documented in-house methods based on: APHA 5210B (2012) EN1899-1:1998 Biochemical Oxygen Demand EW001
			1-1300	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent -Trade Waste - Treated/Effluent	5-day BOD/cBOD	Documented in-house methods based on: APHA 5210B (2012) EN1899-1:1998 Biochemical Oxygen Demand EW001
			1-1300	01 Waters for potable and domestic purposes .99 Other waters	5-day BOD/cBOD	Documented in-house methods based on: APHA 5210B (2012) EN1899-1:1998

				Ground water Surface water Waste water - Untreated/Influent -Trade Waste - Treated/Effluent		Biochemical Oxygen Demand EW001
	cBOD <sup>134</sup>	cBOD (mg/l)	1-1300	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent -Trade Waste - Treated/Effluent	5-day BOD/cBOD	Documented in-house methods based on: APHA 5210B (2012) EN1899-1:1998 Biochemical Oxygen Demand EW001
			1-1300	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent -Trade Waste - Treated/Effluent	5-day BOD/cBOD	Documented in-house methods based on: APHA 5210B (2012) EN1899-1:1998 Biochemical Oxygen Demand EW001
			1-1300	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent -Trade Waste - Treated/Effluent	5-day BOD/cBOD	Documented in-house methods based on: APHA 5210B (2012) EN1899-1:1998 Biochemical Oxygen Demand EW001
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	Chemical Oxygen Demand by Closed Reflux Colorimetry <sup>134</sup>	COD(mg/l)	High Range 8-10,000	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water	Closed Reflux Colorimetry	Documented in-house methods based on: APHA 5220D (2012) closed Reflux Colorimetric. EW094

				Waste water - Untreated/Influent - Treated/Effluent - Trade		
			High Range 8-10,000	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Closed Reflux Colorimetry	Documented in-house methods based on: APHA 5220D (2012) closed Reflux Colorimetric. EW094
			High Range 8-10,000	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Closed Reflux Colorimetry	Documented in-house methods based on: APHA 5220D (2012) closed Reflux Colorimetric. EW094
			Low Range 8-1,500	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Closed Reflux Colorimetry	Documented in-house methods based on: APHA 5220D (2012) closed Reflux Colorimetric. EW094
			Low Range 8-1,500	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent	Closed Reflux Colorimetry	Documented in-house methods based on: APHA 5220D (2012) closed Reflux Colorimetric. EW094



				- Treated/Effluent - Trade		
			Low Range 8-1,500	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Closed Reflux Colorimetry	Documented in-house methods based on: APHA 5220D (2012) closed Reflux Colorimetric. EW094
766 Environmental testing (inc waters) - .04 Organic	Acid Herbicides^1234	236 - Trichlorobenzoic, 24-D, 24-DB, Bentazone, Boscalid, Clopyralid, Dicamba, Dichloroprop, Fluroxypyr, MCPA, MCPB, Mecoprop (MCP), Pentachlorophenol (PCP), Picloram, Triclopyr, Quinmerac, Bromoxynil, Ioxynil, 2,4,5-T, Bromacil	0.01µg/L - 1 µg/L	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water	LCMSMS	Documented In-house methods based on: Test Method EO162; USEPA Method 538-1, USEPA Method 535
	Suite A (Organophosphorus Pesticides, Triazines, Urons and other pesticides)^1234	Chlorfeniphos, Diazinon, Atrazine, Propyzamide, Simazine, Chlorotoluron, Diuron, Isoproturon, Linuron,	0.01µg/L - 1 µg/L	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water	LCMSMS	Documented In-house methods based on: Test Method EO165; USEPA Method 538-1, USEPA Method 536

		Chlopropham, Epoiconazole, Diflufenican, Metaldehyde, Metazachlor,				
	Total Pesticides (Calculation)	Total Pesticides	0.01 - 1 ug/l	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Total Pesticides by Calculation	Documented in-house methods based on: EO196
766 Environmental testing (inc waters) - .05 Inorganic	Bromate by Ion Chromatography <sup>1234</sup>	Bromate (ug/l)	1-50	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Ion Chromatography	Documented in-house methods based on: USEPA 326.0 Ion Chromatography. EW137
			1-50	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Ion Chromatography	Documented in-house methods based on: USEPA 326.0 Ion Chromatography. EW137
			1-50	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Ion Chromatography	Documented in-house methods based on: USEPA 326.0 Ion Chromatography. EW137
			1-50	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Ion Chromatography	Documented in-house methods based on: USEPA 326.0 Ion Chromatography. EW137
			1-50	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Ion Chromatography	Documented in-house methods based on: USEPA 326.0 Ion Chromatography. EW137

Conductivity Measurement <sup>1234</sup>	Conductivity (uS/cm)	100 - 12880	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Conductivity Meter	Documented in-house methods based on: APHA method 2510B EW153C
Dissolved Oxygen <sup>134</sup>	Dissolved Oxygen (mg/l)	1 - 10	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	DO Meter	Documented in-house methods based on: APHA 4500G Dissolved oxygen measurement EW043
		1 - 10	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	DO Meter	Documented in-house methods based on: APHA 4500G Dissolved oxygen measurement EW043
		1 - 10	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	DO Meter	Documented in-house methods based on: APHA 4500G Dissolved oxygen measurement EW043
Fluoride <sup>1234</sup>	Flouride	0.1 to 2 mg/l	01 Waters for potable and	Fluoride by IC	Documented in-house methods based on:

				domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade		USEPA Method 300.1 (1997). Fluoride by IC. EW137
			0.1 to 2 mg/l	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Fluoride by IC	Documented in-house methods based on: USEPA Method 300.1 (1997). Fluoride by IC. EW137
			0.1 to 2 mg/l	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Fluoride by IC	Documented in-house methods based on: USEPA Method 300.1 (1997). Fluoride by IC. EW137
	Gallery Plus Discrete Analyser Tests <sup>1234</sup>	Ammonia as N (mg/l N)	0.05- 0.5	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on: APHA 4500NH3G. EW175
		Ammonia as NH3 by Calculation (mg/l NH3)	0.06-0.608	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on: APHA 4500NH3G. EW175

Ammonium as NH4 by Calculation (mg/l NH4)	0.06-0.644	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on: APHA 4500NH3G. EW175
Chloride (mg/l)	5-100	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on: APHA4500-CL G (2012) EW175
Colour (PtCo-Hazen)	5 - 50	.01 Water for potable and domestic purposes	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on: APHA 2120C (2012) EW175
Fluoride (mg/l)	0.2-2	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on: EPA340.3 EW175
	0.2-2	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on: EPA340.3 EW175
	0.2-2	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on: EPA340.3 EW175
	0.2-2	.01 Water for potable and domestic purposes .99 Other waters	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry

		Ground water Surface water		based on:EPA340.3 EW175
	0.2-2	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:EPA340.3 EW175
Nitrate by Calculation (mg/l N)	1- 15	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:USEPA 353.1.Rev 1 EW175
Nitrate by Calculation (mg/l NO3)	4.4-66	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:USEPA 353.1.Rev 1 EW175
Nitrite (mg/l N)	0.1-0.5	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:APHA 4500- NO2 (2012) EW175
Nitrite as NO2 by calculation (mg/l NO2)	0.33-1.6	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:APHA 4500- NO2 (2012) EW175
Orthophosphate-MRP (mg/l P)	0.05-0.5	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:USEPA 365.1 EW175
Phosphate by Calculation (mg/l P2O5)	0.11-1.15	.01 Water for potable and domestic purposes	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser

		.99 Other waters Ground water Surface water		Spectrophotometry based on:USEPA 365.1 EW175
	0.11-1.15	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:USEPA 365.1 EW175
	0.11-1.15	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:USEPA 365.1 EW175
	0.11-1.15	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:USEPA 365.1 EW175
	0.11-1.15	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:USEPA 365.1 EW175
Phosphate by Calculation (mg/l PO4)	0.15-1.5	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:USEPA 365.1 EW175
Sulphate (mg/l)	1- 100	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Autoanalyser Spectrophotometry	Documented in-house method by Autoanalyser Spectrophotometry based on:APHA 4500- SO4 E EW175
TON	1- 15	.01 Water for potable and	Autoanalyser Spectrophotometry	Documented in-house method by

				domestic purposes .99 Other waters Ground water Surface water		Autoanalyser Spectrophotometry based on:USEPA 353.1.Rev 1 EW175
pH <sup>1234</sup>	pH (pH units)	4.00 - 10.00	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	pH Meter		Documented in-house methods based on: APHA method 2510B EW153B
Suspended Solids <sup>1234</sup>	Suspended Solids (mg/l)	5-1000	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Gravimetric		Documented in-house methods based on: APHA 2540D Suspended solids by Gravimetric analysis EW013
		5-1000	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Gravimetric		Documented in-house methods based on: APHA 2540D Suspended solids by Gravimetric analysis EW013
		5-1000	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent	Gravimetric		Documented in-house methods based on: APHA 2540D Suspended solids by Gravimetric analysis EW013



				- Treated/Effluent - Trade		
	TOC/DOC <sup>1234</sup>	TOC/DOC (mg/l)	1 - 100	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	TOC analyzer	Documented in-house method based on: USEPA Method 415.3 Total Organic Carbon by Combustion Oxidation. EW123
	Total Dissolved Solids <sup>1234</sup>	TDS	15-1000 mg/l	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Total Dissolved Solids @180C	APHA 2540C (2012) Total Dissolved Solids at 180C EW046
15-1000 mg/l			01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Total Dissolved Solids @180C	APHA 2540C (2012) Total Dissolved Solids at 180C EW046	
15-1000 mg/l			01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Total Dissolved Solids @180C	APHA 2540C (2012) Total Dissolved Solids at 180C EW046	

Total Kjeldahl Nitrogen <sup>134</sup>	Total Kjeldahl Nitrogen by Calculation (mg/l)	1-49	"01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade"	Nitrogen by calculation	Documented in-house methods based on: Nitrogen by calculation EW010
		1-49	"01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade"	Nitrogen by calculation	Documented in-house methods based on: Nitrogen by calculation EW010
	Total Kjeldahl Nitrogen <sup>134</sup>	1-49	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Nitrogen by calculation	Documented in-house methods based on: Nitrogen by calculation EW010
	Total Nitrogen <sup>1234</sup>	Total Nitrogen (mg/l)	1-150	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	TN Analyser
		1-150	01 Waters for potable and	TN Analyser	Documented in-house methods based on:

				domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade		APHA 4500NB (2012) by TN Analyser. EW140
			1-150	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	TN Analyser	Documented in-house methods based on: APHA 4500NB (2012) by TN Analyser. EW140
			1-150	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	TN Analyser	Documented in-house methods based on: APHA 4500NB (2012) by TN Analyser. EW140
			1-150	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	TN Analyser	Documented in-house methods based on: APHA 4500NB (2012) by TN Analyser. EW140
	Total Phosphorus <sup>1234</sup>	Total Phosphorus (mg/l)	Potable Water 0.09 - 50 Surface Water 0.23 - 50	01 Waters for potable and domestic purposes .99 Other waters	Total Phosphorus by Ganimede	Documented in-house methods based on:APHA 4500 PJ Total

			Ground Water 0.27 - 50 Trade Waste 0.06 - 50 Influent 0.22 -50 Effluent 0.06 -50	Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade		Phosphorus by Ganimede. EW 146
			Potable Water 0.09 - 50 Surface Water 0.23 - 50 Ground Water 0.27 - 50 Trade Waste 0.06 - 50 Influent 0.22 -50 Effluent 0.06 -50	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Total Phosphorus by Ganimede	Documented in-house methods based on:APHA 4500 PJ Total Phosphorus by Ganimede. EW 146
			Potable Water 0.09 - 50 Surface Water 0.23 - 50 Ground Water 0.27 - 50 Trade Waste 0.06 - 50 Influent 0.22 -50 Effluent 0.06 -50	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Total Phosphorus by Ganimede	Documented in-house methods based on:APHA 4500 PJ Total Phosphorus by Ganimede. EW 146
			Potable Water 0.09 - 50 Surface Water 0.23 - 50 Ground Water 0.27 - 50 Trade Waste 0.06 - 50 Influent 0.22 -50 Effluent 0.06 -50	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water Waste water - Untreated/Influent - Treated/Effluent - Trade	Total Phosphorus by Ganimede	Documented in-house methods based on:APHA 4500 PJ Total Phosphorus by Ganimede. EW 146
			Potable Water 0.09 - 50 Surface Water 0.23 - 50 Ground Water 0.27 - 50	01 Waters for potable and domestic purposes .99 Other waters Ground water Surface water	Total Phosphorus by Ganimede	Documented in-house methods based on:APHA 4500 PJ Total Phosphorus by

			Trade Waste 0.06 - 50 Influent 0.22 -50 Effluent 0.06 -50	Waste water - Untreated/Influent - Treated/Effluent - Trade		Ganimede. EW 146
	Turbidity Measurement <sup>134</sup>	Turbidity (NTU)	0.12 - 150	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	Turbidity Technique	Documented in-house methods based on: ISO 7027:1999 EW136
	UV Spectrometry <sup>134</sup>	UV Absorbance (cm1)	0.014- 1	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	UV Spectrometry @254nm	Documented in-house methods based on: EW182 - USEPA 415.3, Standard method 5910B
			0.014- 1	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	UV Spectrometry @254nm	Documented in-house methods based on: EW182 - USEPA 415.3, Standard method 5910B
			0.014- 1	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	UV Spectrometry @254nm	Documented in-house methods based on: EW182 - USEPA 415.3, Standard method 5910B
		UV Transmittance (%)	10-96	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	UV Spectrometry @254nm	Documented in-house methods based on: EW182 - USEPA 415.3, Standard method 5910B
			10-96	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	UV Spectrometry @254nm	Documented in-house methods based on: EW182 - USEPA 415.3, Standard method 5910B

			10-96	.01 Water for potable and domestic purposes .99 Other waters Ground water Surface water	UV Spectrometry @254nm	Documented in-house methods based on: EW182 - USEPA 415.3, Standard method 5910B
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