

Schedule of Accreditation



Organisation Name	Southern Scientific Services Limited
Trading As	
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Website	http://www.southernscientificireland.com
Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
Date of award of accreditation	22/04/2008
Scope Classification	Biological and veterinary testing
Scope Classification	Chemical testing
Services available to the public ¹	

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	Site	Dunrine , Killarney, Kerry, Ireland
2	Head Office	Unit 4, 4Park Business Centre, , Farranfore, Kerry, Ireland

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	Enumeration of coliforms and E. coli by the colilert method	Colilert	Waters - potable waters, Swimming pools and spas, Environmental water, Waste water treatment plant effluent (WWTP effluent), Other waters - Marine waters - Waste Waters - Effluents	fluorescence cabinet; colilert vessels; quanti-trays	ISO 9308-2:2012, AFNOR IDX 33/01-11/19, SMP 019	
	Enumeration of E. coli by the Multiple Tube Method	Multiple Tube Technique	Fish, Shellfish and molluscs	N/A	ISO/TS 16649-3:2015, SMP 018	
	Enumeration of Enterococci by the Enterolert method	Enterolert DW / MPN	Waters - potable waters	fluorescence cabinet; colilert vessels; quanti-trays	Idexx Enterolert protocol, AFNOR IDX 33/03-10/13, SMP 068	

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters)	Determination of Sum benzo b & k fluoranthene in water	Sum benzo b & k fluoranthene	0.005 - 0.2 µg/l	Potable, Ground water, Surface water, Waste Water, WWTP Effluents	GC-MSMS	USEPA method 8270 E / SCP060 (b)
	Determination of BTEX in Soil	Benzene Toluene Ethylbenzene O-Xylene M&P Xylene	20 - 1000 µg/kg	Mineral/Loam & Clay	Headspace GC-MS	ISO 22155 second edition 2011 / SCP 114 b
	Determination of Diesel Range Organics	C10 -C28	10 -10,000 µg/l	Potable, Ground water, surface water	GC-FID	USEPA 8015 D /SCP 115a
	Determination of Dissolved Organic Carbon (DOC)	Dissolved Organic Carbon	0.5-10,000 mg/L	Waters for potable and domestic purposes WWTP effluents Other waters - Ground waters - Surface waters - Landfill Leachates	Elemental Analyzer, Combustion	APHA, 5310-B, 23Ed., (2017), EN 1484 / SCP 065(b)
	Determination of PAH's in Soil	Naphthalene Acenaphtylene Acenaphtene Phenanthrene Anthracene Fluorene Benzo(a)anthracene Chrysene Fluoranthene Pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene	0.03 - 250 mg/kg	Mineral/Loam & Clay	GC-MS	USEPA 8270 E /SCP 060(a)

	Benzo(a)pyrene Indeno(1,2,3,- cd)pyrene Benzo(g,h,i)perylene Dibenz(a,h)anthracene				
Determination of PAH's in water	Acenaphthylene Naphthalene Acenaphthene Phenanthrene Anthracene Fluorene Benzo(a)anthracene Chrysene Fluoranthene Pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3,- cd)pyrene Benzo(g,h,i)perylene Dibenz(a,h)anthracene	0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L 0.003 - 0.2 µg/L 0.005 - 0.2 µg/L 0.005 - 0.2 µg/L	Potable, Ground water, Surface water, Waste water, Effluents	GC-MSMS	USEPA Method 8270 E/ SCP 060(b)
Determination of Pesticides in water	Pendimethalin Dichlobenil Dieldrin Cypermethrin	0.005 - 0.2 µg/l 0.005 - 0.2 µg/l 0.005 - 0.2 µg/l 0.012 - 0.2 µg/l	Potable, Ground water, Surface water, Waste Water, WWTP Effluents	GC-MS	US EPA Method 8270 E/ SCP 060 (a)
Determination of Sum benzo b & k Fluoranthene	Sum benzo b & k fluoranthene	0.02 - 250 mg/kg	Mineral/Loam & Clay	GC-MSMS	USEPA 8270 E / SCP 060(a)
Determination of total PAH's in Soil	Total PAH's	0.32 - 250 mg/kg	Mineral/Loam & Clay	GC-MSMS	USEPA 8270 E/ SCP 060(b)
Determination of total PAH's in water (sum 16) Determination of total PAH's in water (sum 4)		0.078 -0.2 µg/l 0.02 -0.012	Potable, Ground water, Surface water, Waste Water, Effluent	GC-MSMS	USEPA method 8720 E/ SCP060 (a)
Determination of TPH's	C10 - C12 C12 - C16 C16 - C21 C21 - C28 C28 - C35	2 -2000 mg/kg	Mineral/Loam & Clay	GC-FID	USEPA 8015 D/ SCP115a
Determination of Volatile Organic Compounds (VOC's) in water	Vinyl chloride Ethyl chloride (Chloroethane)	0.1 - 50 µg/L	Potable, Ground Water, Surface water, Waste	Headspace GC-MS	USEPA 5021A / SCP114a

		1,1-Dichloroethene 1,2-Dichloroethene (trans) 1,2-Dichloroethene (cis) 1,1-Dichloroethane 2,2-Dichloropropane Bromochloromethane Carbon Tetrachloride 1,1-Dichloropropene Trichloroethene 1,2-Dichloropropane Dibromomethane 1,3-Dichloropropene (cis) Toluene 1,3-Dichloropropene (trans) 1,1,2-Trichloroethane 1,3-Dichloropropane 1,2-Dibromoethane Chlorobenzene Ethylbenzene 1,1,1,2-Tetrachloroethane M&P-Xylene o-Xylene Styrene Isopropylbenzene (cumene) Bromobenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 1,2,5-Trimethylbenzene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropyltoluene (p-Cymene) 1,3-Dichlorobenzene 1,4-Dichlorobenzene		Water, WWTP Effluents		
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		n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene				
	Determination of Volatile Organic Compounds (VOC's) in water	Benzene 1,2 dichloroethane Tetra chloroethene Chloroform Bromodichloromethane Dibromochloromethane Bromoform	0.1 - 50 µg/L 0.1 - 50 µg/L 0.1 - 50 µg/L 1 - 150 µg/L 1 - 150 µg/L 1 - 150 µg/L 1 - 150 µg/L	Potable, Ground water, Surface Water, Waste Water, WWTP Effluents	Headspace GC-MS	US EPA 5021A / SCP114 a
		Sum of trichloethene & tetrachloethene	0.2 - 50 µg/L	Potable, Ground water, Surface Water	Headspace GC-MS	US EPA 5021A / SCP114 a
		Total THM's (Calc)	4 - 150 µg/L	Potable, Ground water, Surface Water	Headspace GC-MS	US EPA 5021A / SCP 114 a
	Total BTEX	Calculation total BTEX	100 - 1000 µg/kg	Mineral/Loam & Clay	Headspace GC-MS	ISO 22155 second edition 2011
766 Environmental testing (inc waters) - .01 Metal analysis	Determination of Cu, Zn, RE Mn in Soil	Copper Easily Extractable Manganese Zinc	0.5-15 mg/L 5-750 mg/l 0.5-15 mg/l	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	Calculation by Chemical Analysis of Agricultural Material, An Foras Taluntais, 1979 / SSP 038
	Determination of Metals by ICP-OES	Aluminium	10 - 10,000 µg/L	Potable & Domestic Water	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b
		Cadmium Chromium Copper Iron Lead Manganese Nickel Zinc	2-1000 µg/L 1-1000 µg/L 2-1000 µg/L 10-1000 µg/L 2-1000 µg/L 2-1000 µg/L 2-1000 µg/L 10-1000 µg/L	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053b

	Determination of Metals in Soil	Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Lead Manganese Molybdenum Nickel Zinc	0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw 0.25-2500 mg/kg dw	Agricultural products and materials - Soils, Constituents of the environment - Soils	ICP-OES	BS 7755 (1995) / SCP 053b
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	Determination of Biochemical Oxygen Demand	BOD	1-32,000 mg/L O2	Waters for potable and domestic purposes, Sewage, Saline Waters, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	DO meter	APHA, 5210B, 23Ed., (2017) / SCP015
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	Determination of Chemical Oxygen Demand	COD	10-30,000 mg/L	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates	HACH / Colorimetric	APHA, 5520D, 23Ed., (2017) / SCP 016
766 Environmental testing (inc waters) - .04 Organic	Determination of Acid Herbicides by LCMSMS	2, 3, 6-Trichlorobenzoic Acid 2,4 D 2,4 DB Bentazone Boscalid Clopyralid Dicamba Dichlorprop (2,4 DP) Fluoroxypyr	0.005 - 0.5 µg/L	Potable & Domestic Water Ground Water Surface Water, bore and raw water	LCMSMS	USEPA 538-1-2009 USEPA 535 -2005/ SCP 131a

		MCPA MCPP (Mecoprop) Pentachlorophenol Picloram Triclopyr				
Determination of Detergents in Water, Wastewater and Seawater by HACH Spectrophotometry	Anionic Detergents	0.01-1.25 mg/L LAS	Trade Wastes, Saline Waters, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm Waters	HACH DR3900 / Spectrophotometry	APHA, 5540C, 22 Ed., (2012) / SCP 055	
Determination of Dustfall	Dust	N/A	Constituents of the environment - Atmospheric dust fall	Bergerhoff Dust Gauge	VDI 4320 Part 2, Measurement of Atmospheric Dust Depositions / SCP 039	
Determination of Glyphosate by LCMSMS	Glyphosate	0.005 - 0.5 µg/L	Potable & Domestic Water Ground Water Surface Water, bore and raw water	LCMSMS	USEPA 538-1-2009 USEPA 536 -2007 LCMSMS /SCP 131b	
Determination of Organic Matter	Organic Matter	0.1-99.9 %	Agricultural products and materials - Soils, Constituents of the environment - Soils	Gravimetrically	BS 7755 (1995) / SSP 012	
Determination of Pesticides by LCMSMS	Atrazine Chlorfenvinphos Chlorotoluron Chlorpropham Diazinon Diflufenican Diuron Epoxiconazole Isoproturon Linuron Metaldehyde Metazachlor	0.005 - 0.5 µg/L	Potable & Domestic Water Ground Water Surface Water, bore and raw water	LCMSMS	USEPA 538-1-2009 USEPA 536 -2007 LCMSMS / SCP 131c	

		Propzamide Simazine				
	Determination of Total Organic Carbon (TOC)	Total Organic Carbon	0.5-10,000 mg/L	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Elemental Analyzer, Combustion	APHA, 5310-B, 23Ed., (2017), EN 1484 / SCP 065(b)
	Determination of Turbidity	Turbidity	0.2-20 NTU	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	Nephelometry	APHA, 2130B, 22 Ed., (2012) / SCP 058
766 Environmental testing (inc waters) - .05 Inorganic	Determination of Alkalinity	Alkalinity	5-800 mg/L CaCO3	Waters for potable and domestic purposes, WWTP Effluents, Saline waters, Other waters - Ground waters, Surface waters, Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	HMSO, SCA, Method C. / SCP 027h
	Determination of Ammonia	Ammonia	0.02-12 mg/L N (0.03-15.4 mg/L NH4)	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NH3-G, 23Ed., (2017) / SCP 027a
	Determination of Ca, Mg, Na, K by ICP-OES 700 series	Calcium Magnesium Potassium Sodium	1-250 mg/L 0.2-50 mg/l 1-100 mg/l 1-250 mg/l	Waters for potable and domestic purposes, Other Waters - Ground waters - Surface waters	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053a

Determination of Chloride	Chloride	0.5-600 mg/L Cl	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500Cl-G, 23Ed., (2017) / SCP 027b
Determination of Colour by HACH Photometer using the Rohasys System	Colour	5 - 25 Pt Co Units	Potable, Ground water, Surface water, Waste water, Effluents	Automated spectrophotometer	Standard Methods for the Examination of Water and Wastewater, Current Edition – APHA-2120C / SCP 018 B
Determination of Colour by Spectrophotometry	Colour	5-500 Pt-Co	Waters for potable and domestic purposes, Sewage, Trade Wastes, Bore Waters,	Spectrophotometry	APHA, 2120C, 23 Ed., (2017) / SCP 018
Determination of Dustfall	Dust	N/A	Constituents of the environment - Atmospheric dust fall	Bergerhoff Dust Gauge	VDI 4320 Part 2, Measurement of Atmospheric Dust Depositions / SCP 039
Determination of Fluoride	Fluoride	0.1 - 10.0 mg/L	Potable waters, surface waters, ground waters and waste waters	ISE	USEPA 9214 - Potentiometric Determination of Fluoride in Aqueous Samples with Ion-Selective Electrode / SCP 063
Determination of Free Cyanide	Free Cyanide	0.01 - 0.5 mg/l	Waters for potable and domestic purposes	Spectrophotometry by Aquakem 250 Autoanalyser	CYN-D-P-A, SCP 0271
Determination of Magnesium in soil	Magnesium	20 – 500 mg/L	Agricultural products and materials - Soils, Constituents of the environment - Soils	Spectrophotometric technique	Documented in-house procedures based on the Department of Agriculture – DAF Publication –

					Standard Soil Analysis for REPS – 1st November 2004 / SSP 022c
Determination of Metals by ICP-OES in water	Aluminium Cobalt Molybdenum Cadmium Chromium Copper Iron Lead Manganese Nickel Zinc Vanadium Calcium Magnesium Sodium Potassium	10-10,000 ug/l 1-100 ug/l 1-1,000 ug/l 0.4-100 ug/l 1-10,000 ug/l 2-10,000 ug/l 2-10,000 ug/l 2-1,000 ug/l 1-10,000 ug/l 2-10,000 ug/l 2-10,000 ug/l 1-1,000 ug/l 0.2-500 mg/l 0.2-500 mg/l 0.2-500 mg/l 0.2-500 mg/l	Potable, Ground water, Surface water, Waste water, Effluents	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053 D
Determination of Metals by ICP-OES in Water	Arsenic Selenium Antimony	3 - 1,000 ug/l 5 - 100 ug/l 5 - 100 ug/l	Ground water, Surface water, Waste water, Effluents	ICP-OES	APHA, 3120B 23 Ed., (2017) / SCP 053 D
Determination of Nitrate	Nitrate	0.25-45 mg/L N (1.11-199 mg/L NO ₃)	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA 4500NO ₃ -E, 23Ed., (2017) / SCP 027g
Determination of Nitrite	Nitrite	0.005-10 mg/L N (0.016-32.8 mg/L NO ₂)	Waters for potable and domestic purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NO ₂ -B, 23Ed., (2017) / SCP 027f
Determination of Orthophosphate	Orthophosphate	0.01-12 mg/l P (0.03-36.8 mg/L PO ₄)	Waters for potable and domestic	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500P-E, 23Ed., (2017) / SCP 027c

			purposes, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates, Saline waters		
Determination of Phosphorus (P) in Morgan's extracts	Phosphorus	1.0-30 mg/L	Agricultural products and materials - Soils, Constituents of the environment - Soils	Spectrophotometric Technique	Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1st November 2005 / SSP 022b
Determination of Potassium in Morgan's Extract	Potassium	20-500 mg/L	Agricultural products and materials - Soils, Constituents of the environment - Soils	Flame Photometric Technique	Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1st November 2005 / SSP 022a
Determination of Saline Ammonia	Saline Ammonia	0.035-0.4 mg/L N (0.045-0.51 mg/L NH ₄)	Waters for potable and domestic purposes, Saline Waters, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NH ₃ -G, 23Ed., (2017) with application note D09161-01 / SCP 027j
Determination of Saline Total Oxidised Nitrogen	Saline TON	0.02-5 mg/L N	Waters for potable and domestic purposes, Saline Waters, WWTP effluents, Other waters - Ground waters - Surface waters - Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NO ₃ -G, 23Ed., (2017) with application note D09727-3 Thermo Scientific (2014) / SCP 027k
Determination of Sulphate	Sulphate	0.5-600 mg/L SO ₄	Waters for potable and domestic purposes, WWTP	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500SO ₄ -F, 23Ed., (2017) / SCP 027d

			effluents, Other waters - Ground waters - Surface waters - Landfill Leachates		
Determination of Total Hardness	Total Hardness	5-600 mg/L CaCO ₃	Waters for potable and domestic purposes, WWTP Effluents, Saline waters, Other waters - Ground waters, Surface waters, Landfill Leachates	Spectrophotometry by Aquakem 250 Autoanalyser	USEPA Method 138.1. / SCP 027i
Determination of Total Kjeldahl Nitrogen by calculation	Total Kjeldahl Nitrogen	0.5 - 10,000 mg/L N	Waters for potable and domestic purposes, Saline Waters, WWTP Effluent, Other Waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachate	Calculation	APHA, 4500N-C & 4500NO ₃ -H 23 Ed., (2017) / SCP 057
Determination of Total Nitrogen	Total Nitrogen	0.5 – 10,000 mg/L	Potable waters, Ground waters, Surface waters, Saline Waters, Leachates and Effluents	Elemental Analyzer, Combustion	BS EN 12260 / SCP 065(a)
Determination of Total Nitrogen by Digestion/Spectrophotometry	Nitrogen	1-10,000 mg/L N	Sewage, Trade Wastes, Saline Waters, Other Waters	HACH DR3900 / Spectrophotometry	APHA, 4500N, 23Ed., (2017) / SCP 043
Determination of Total Oxidised Nitrogen	TON	0.2-50 mg/L N	Waters for potable and domestic purposes, Saline Waters, WWTP effluents, Other waters - Ground waters - Surface	Spectrophotometry by Aquakem 250 Autoanalyser	APHA, 4500NO ₃ -E, 23Ed., (2017) with application note 71395 Thermo Scientific (2014) / SCP 027e

			waters - Landfill Leachates		
Determination of Total Petroleum Hydrocarbon in water	C10-C40	10 - 10,000 µg/L	Potable, Ground water, Surface Water, Waste Water, WWTP Effluents	GC-FID	USEPA 8015 D / SCP115 a
Determination of Total Phosphorus by Digestion/Spectrophotometry	Phosphorus	0.04-100 mg/L P	Sewage, Trade Wastes, Saline Waters, Other Waters	HACH DR3900 / Spectrophotometry	APHA, 4500-P, 23Ed., (2017) / SCP 044
Determination of Turbidity by HACH Turbidity Meter using the Rohasys System	Turbidity	0.2 - 20 NTU	Potable, Ground water, Surface water, Waste water, Effluents	HACH Turbidity meter	Standard Methods for the Examination of Water and Wastewater, Current Edition – APHA-2130C SCP 058 B
Dumas Combustion	TC TN	0.1 - 45% 0.05 - 10%	mineral, loam, clay, peat	Dumas combustion	ISO 15936-2012/SSP 046a ISO 15936-2012/SSP 046a
Dumas Combustion	TC TIC	0.1 - 45 % 0.04 - 12 %	mineral, loam, clay, peat	Dumas Combustion	ISO 15936-2012/SSP 047a ISO 15936-2012/SSP 047a
	TOC TOC difference	0.1 - 40 % 0.1 - 40 %	mineral, loam, clay, peat	calculation calculation	ISO 15936-2012/SSP 047a ISO 15936-2012/SSP 048
Ion Chromatography	Bromate	2 to 50 µg/l BrO3	Potable, Ground Water, Surface water	IC	USEPA Method 300.0 (1997)/ SCP 068b
	Fluoride	0.1 - 3 mg/L	Potable, Ground Water, Surface water	IC	USEPA Method 326.0 (1997)/ SCP 068a
Metal analysis by iCapQ ICP-MS	Aluminium Arsenic	10-10,000 µg/L 1-10,000 µg/L	Waters for potable and	ICP-MS	APHA, 3125B, 23rd Ed. (2017)/ SCP 073

		<p>Cadmium Chromium Cobalt Copper Iron Lead Manganese Boron Molybdenum Mercury Nickel Selenium Vanadium Zinc Uranium Antimony</p>	<p>0.45-10,000 µg/L 1-10,000 µg/L 1-10,000 µg/L 1-10,000 µg/L 5-10,000 µg/L 1-10,000 µg/L 1-10,000 µg/L 20-10,000 µg/L 1-10,000 µg/L 0.5-10,000 µg/L 1-10,000 µg/L 1-10,000 µg/L 1-10,000 µg/L 5-10,000 µg/L 1-10,000 µg/L 1-10,000 µg/L</p>	domestic purposes		
767 Physical test/measurement - .01 pH	Determination of pH and Conductivity using Rohasys minilab	pH	4-10 pH Units	Waters for potable and domestic purposes, Trade Wastes, Saline Waters, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	Rohasys Minilab	APHA, 4500B-H+, 23 Ed., (2017) / SCP 052
	Determination of water pH and Buffer pH in Soils	pH Soil (Water)	4-10 pH Units	Agricultural products and materials - Soils, Constituents of the environment - Soils	Rohasys Minilab	Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1st November 2004 / SSP 021
		SMP Buffer pH - for determination of Lime Requirement by calculation	4-10 pH Units	Agricultural products and materials - Soils, Constituents of the environment - Soils	Rohasys Minilab	Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1st November 2005 & Calculation by Chemical Analysis of

						Agricultural Material, An Foras Taluntais, 1979 / SSP 021
767 Physical test/measurement - .02 Conductivity	Determination of pH and Conductivity using Rohasys minilab	Conductivity	14.7-111,900 $\mu\text{S}/\text{cm}$ @ 20°C	Waters for potable and domestic purposes, Trade Wastes, Saline Waters, Bore Waters, WWTP Effluent, Other waters - Ground waters - Surface waters - Waste Waters - Effluents - Landfill Leachates	Rohasys Minilab	APHA, 2510B, 23 Ed., (2017) / SCP 052
767 Physical test/measurement - .03 Suspended Solids	Determination of Suspended Solids	Suspended Solids	2-10,000 mg/L	Waters for potable and domestic purposes, Sewage, Trade Wastes, Saline Waters, Bore Waters, Other waters - Ground waters - Surface waters - Effluents - Leachates	Gravimetrically	APHA, 2540D, 23Ed., (2017) / SCP 010

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	Enumeration of Clostridium perfringens	Membrane Filtration	Waters - potable waters	Membrane Filtration	ISO 14189:2013 / SMP 069	
	Enumeration of Enterococci by Enterolert method	Enterolert / MPN	Wastewater treatment plant (WWTP) effluents, wastewater, effluent	fluorescence cabinet; colilert vessels; quanti-trays	Enterolert-E protocol / SMP 068, AFNOR IDX 33/04-02/15	
	Enumeration of Faecal coliforms	Colilert-18 / MPN	Wastewater treatment plant effluent (WWTP effluent), Wastewater, effluent, surface water	Colilert vessels; quanti-trays	Idexx Colilert-18 protocol / SMP 124	
	Enumeration of TVC in waters- colony count technique	Colony Count	Waters - potable waters, Effluents	N/A	ISO 6222:1999 / SMP 061	