

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-Upon-Thames, TW18 3HR



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Accredited to  
ISO/IEC 17025:2017

### States of Guernsey, States Analytical Laboratory

Issue No: 031 Issue date: 23 January 2020

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Testing performed at the above address only

#### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<b>WATERS</b>  Groundwater, surface water and drinking waters	<u>Chemical Tests and Physical Tests</u>	Documented in-house procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM), referenced by the ISBN number and year. Additional or alternative references are identified as appropriate.
	Alkalinity	'ALKTI' (No 1) ISBN 011 751 601 5, 1981
	Aluminium	'ALSPEC' (No 2) ISBN 011 752 040 3 (Method A), 1987
	Ammonia	'AMMKO' (No 3) ISBN 011 751 613 9 (Method D), 1981
	Biochemical Oxygen Demand	'BOD' (No 4) ISBN 011 752 212 0, 1988
	Calcium	'CALKO' (No 5) Kone Water Analysis Application Notes (Calcium), 1993
	Chemical Oxygen Demand	'CALAAS' (No 48) ISBN 011 752 016 0 (Method B), 1987
		'CODOT' (No 7) ISBN 011 751 915 4 (Method B) 1986



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<p>WATERS (cont'd)</p> <p>Groundwater, surface water and drinking waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Chloride</p> <p>Conductivity</p> <p>Copper</p> <p>Fluoride</p> <p>Hardness: Total</p> <p>Iron</p> <p>Magnesium</p> <p>Manganese</p> <p>Nitrate [Oxidised Nitrogen ('TONK' (No 32)) minus Nitrite ('NRITEKO' (No 17))]</p> <p>Nitrite</p> <p>Orthophosphate</p>	<p>Documented in-house procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM), referenced by the ISBN number and year. Additional or alternative references are identified as appropriate. (cont'd)</p> <p>'CHLORK' (No 6) ISBN 011 751 626 (Method D) 1981</p> <p>'COND' (No 9) ISBN 011 751 428 4 (Method A) 1978</p> <p>'COPPER' (No 10) ISBN 011 751 542 6, 1980</p> <p>'FLUOR' (No 12) ISBN 011 751 662 7 (Method A) 1982</p> <p>'TOTKO' (No 29) Kone Water Analysis Application Notes (Hardness-Total) 1993</p> <p>'IRON' (No 14) ISBN 011 751 727 5, 1983</p> <p>'MAGAAS' (No 49) ISBN 011 752 016 0 (Method B) 1987</p> <p>'MANGAN' (No 16) ISBN 011 751 727 5, 1983</p> <p>By calculation</p> <p>'NRITEKO' (No 17) ISBN 011 751 593 0 (Method H) 1981</p> <p>'PHOSKO' (No 21) ISBN 011 752 377 1 (Method A) 1992</p>



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<p>WATERS (cont'd)</p> <p>Groundwater, surface water and drinking waters (cont'd)</p>	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Oxidised Nitrogen</p> <p>pH</p> <p>Potassium</p> <p>Sodium</p> <p>Sulphate</p> <p>Total Organic Carbon (TOC)</p> <p>Turbidity</p> <p>Zinc</p>	<p>Documented in-house procedures based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials', (MEWAM), referenced by the ISBN number and year. Additional or alternative references are identified as appropriate. (cont'd)</p> <p>'TONK' (No 32) ISBN 011 751 593 0 (Method C) 1981</p> <p>'PH' (No 20) ISBN 011 751 428 4 (Method B) 1978</p> <p>'POTASS' (No 22) ISBN 011 751 545 0 (Method A) 1980</p> <p>'SODIUM' (No 27) ISBN 011 751546 9 (Method A) 1980</p> <p>'SULPHKO' (No 28) ISBN 011 752240 6 (Method E), 1988</p> <p>'TOC' (No 31) using LABTOC Analyser</p> <p>'TURB' (No 33) ISBN 011 751 955 3 (Method B2) 1981</p> <p>'ZINC' (No 34) ISBN 011 751 541 8, 1980</p>



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WASTEWATERS	<u>Chemical Tests and Physical Tests</u> (cont'd)	
Untreated and treated domestic and industrial sewage waters	Alkalinity	'ALKTI' (No 1) ISBN 011 751 601 5, 1981
	Ammonia	'AMMKO' (No 3) ISBN 011 751 613 9 (Method D) 1981
	Biochemical Oxygen Demand	'BOD' (No 4) ISBN 011 752 2120, 1988
	Calcium	'CALAAS' (No 48) ISBN 011 752 016 0 (Method B) 1987
	Chemical Oxygen Demand	'CODOT' (No 7) ISBN 011 751 915 4 (Method B) 1986
	Chloride	'CHLORK' (No 6) ISBN 011 751 626 (Method D) 1981
	Conductivity	'COND' (No 9) ISBN 011 751 428 4 (Method A) 1978
	Copper	'COPPER' (No 10) ISBN 011 751 542 6, 1980
	Iron	'IRON' (No 14) ISBN 011 751 727 5, 1983
	Magnesium	'MAGAAS' (No 49) ISBN 011 752 016 0 (Method B) 1987
	Manganese	'MANGAN' (No 16) ISBN 011 751 727 5, 1983
	Nitrite	'NRITEKO' (No 17) ISBN 011 751 593 0 (Method H) 1981
Orthophosphate	'PHOSKO' (No 21) ISBN 011 752 377 1 (Method A) 1992	



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WASTEWATERS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	
Untreated and treated domestic and industrial sewage waters (cont'd)	pH	'PH' (No 20) ISBN 011 751 428 4 (Method B) 1978
	Potassium	'POTASS' (No 22) ISBN 011 751 545 0 (Method A) 1980
	Sodium	'SODIUM' (No 27) ISBN 011 751 546 9 (Method A) 1980
	Sulphate	'SULPHKO' (No 28) ISBN 011 752240 6 (Method E) 1988
	Zinc	'ZINC' (No 34) ISBN 011 751 541 8, 1980
LEACHATES	<u>Chemical Tests and Physical Tests</u>	
	Alkalinity	'ALKTI' (No 1) ISBN 011 751 601 5, 1981
	Ammonia	'AMMKO' (No 3) ISBN 011 751 613 9 (Method D), 1981
	Biochemical Oxygen Demand	'BOD' (No 4) ISBN 011 752 212 0, 1988
	Calcium	'CALAAS' (No 48) ISBN 011 752 016 0 (Method B) 1987
	Chemical Oxygen Demand	'CODOT' (No 7) ISBN 011 751 915 4 (Method B), 1986
	Chloride	'CHLORK' (No 6) ISBN 011 751 626 (Method D) 1981
	Conductivity	'COND' (No 9) ISBN 011 751 428 4 (Method A) 1978



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LEACHATES (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	
	Copper	'COPPER' (No 10) ISBN 011 751 542 6, 1980
	Iron	'IRON' (No 14) ISBN 011 751 727 5, 1983
	Magnesium	'MAGAAS' (No 49) ISBN 011 752 016 0 (Method B) 1987
	Manganese	'MANGAN' (No 16) ISBN 011 751 727 5, 1983
	Nitrite	'NRITEKO' (No 17) ISBN 011 751 593 0 (Method H) 1981
	Orthophosphate	'PHOSKO' (No 21) ISBN 011 752 377 1 (Method A) 1992
	pH	'PH' (No 20) ISBN 011 751 428 4 (Method B) 1978
	Potassium	'POTASS' (No 22) ISBN 011 751 545 0 (Method A) 1980
	Sodium	'SODIUM' (No 27) ISBN 011 751 546 9 (Method A) 1980
	Sulphate	'SULPHKO' (No 28) ISBN 011 752240 6 (Method E) 1988
	Total Organic Carbon (TOC)	'TOC' (No 31) using LABTOC Analyser
	Zinc	'ZINC' (No 34) ISBN 011 751 541 8, 1980



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SALINE WATERS	<u>Chemical Tests and Physical Tests</u> (cont'd)	
Marine and Estuarine Waters	Alkalinity	'ALKTI' (No 1) ISBN 011 751 601 5, 1981
	Biochemical Oxygen Demand	'BOD' (No 4) ISBN 011 752 212 0, 1988
	Calcium	'CALAAS' (No 48) ISBN 011 752 016 0 (Method B) 1987
	Chemical Oxygen Demand	'CODOT' (No 7) ISBN 011 751 915 4 (Method B), 1986
	Chloride	'CHLORK' (No 6) ISBN 011 751 626 (Method D) 1981
	Conductivity	'COND' (No 9) ISBN 011 751 428 4 (Method A) 1978
	Copper	'COPPER' (No 10) ISBN 011 751 542 6, 1980
	Iron	'IRON' (No 14) ISBN 011 751 727 5, 1983
	Magnesium	'MAGAAS' (No 49) ISBN 011 752 016 0 (Method B) 1987
	Manganese	'MANGAN' (No 16) ISBN 011 751 727 5, 1983
	Nitrite	'NRITEKO' (No 17) ISBN 011 751 593 0 (Method H) 1981
	Orthophosphate	'PHOSKO' (No 21) ISBN 011 752 377 1 (Method A) 1992
	pH	'PH' (No 20) ISBN 011 751 428 4 (Method B) 1978



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SALINE WATERS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	
Marine and Estuarine Waters (cont'd)	Potassium	'POTASS' (No 22) ISBN 011 751 545 0 (Method A) 1980
	Sodium	'SODIUM' (No 27) ISBN 011 751 546 9 (Method A) 1980
	Sulphate	'SULPHKO' (No 28) ISBN 011 752240 6 (Method E) 1988
	Total Organic Carbon (TOC)	'TOC' (No 31) using LABTOC Analyser
	Zinc	'ZINC' (No 34) ISBN 011 751 541 8, 1980
	<u>Microbiological Tests</u>	
	Enumeration of:	
FOOD Shellfish	<i>E. coli</i>	'ECFISH' (No 52) using the BCIG medium TBX based on BS EN ISO 16649-3:2015
WATERS		Documented in-house methods based on procedures in "The Microbiology of Drinking Water" (MDW)
Drinking, recreational, surface, sewage water	Total Coliforms <i>E. coli</i>	'COLILERT' (No 59) based on MDW, Part 4, 2016, using colilert
	Total Coliforms <i>E. coli</i>	'COLIRAW' (No 37) based on MDW, Part 4, 2016, using membrane filtration
	Total Colony Counts: 1 day, 37°C 2 days, 37°C 3 days, 22°C	'COUNT' (No 35) based on MDW, Part 7A, 2012
	Enterococci	'ENTERO' (No 40) based on MDW, Part 5A, 2012 and in accordance with Directive 2006/7/EC





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<p>WATERS (cont'd)</p> <p>Recreational, mains and process waters (cooling towers)</p> <p>Recreational water (Marine and Estuarine)</p> <p>Drinking, manmade recreational and Reverse Osmosis waters</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Enumeration of: (cont'd)</p> <p>Detection and Enumeration of <i>Legionella pneumophila</i> and species. Including Identification of <i>L. pneumophila</i> Serogroups 1 and 2 to 14</p> <p><i>Escherichia coli</i></p> <p>Enterococci</p> <p><i>Pseudomonas aeruginosa</i></p>	<p>'LEGION' (No 66) based on BS EN ISO 11731:2017 for Matrix A and B samples, using membrane Filtration, followed by Heat Treatment plating out onto GVPC and BCYE. Confirmation using Latex agglutination</p> <p>'COLISEA' (No 38) based The Microbiology of Recreational and Environmental Waters (2016) Part 3 and in accordance with Directive 2006/7/EC</p> <p>'ENTERO' (No 40) based on MDW, Part 5A, 2012 and in accordance with Directive 2006/7/EC</p> <p>'PSEUDO' using membrane filtration based on The Microbiology of Drinking Water (MDW), Part 8, 2015</p>
END		