


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>1223 Accredited to ISO/IEC 17025:2017</p>	Anglian Water Services Ltd Issue No: 064 Issue date: 17 September 2021	
	Anglian Scientific Kingfisher Way Hinchingbrooke Business Park Huntingdon Cambridgeshire PE29 6FL	Contact: Mrs R Felton Tel: +44 (0)1480 325709 Fax: +44 (0)1480 325705 E-Mail: rfelton@anglianwater.co.uk Website: www.anglianwater.co.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code		
<table border="0"> <tr> <td>Address Anglian Water Services Huntingdon Laboratory Kingfisher Way Hinchingbrooke Business Park Huntingdon Cambridgeshire PE29 6FL</td> <td>Local contact Mrs R Felton Tel: +44 (0)1480 325709 Fax: +44 (0)1480 325705 Email: rfelton@anglianwater.co.uk Website: www.anglianwater.co.uk</td> </tr> </table>	Address Anglian Water Services Huntingdon Laboratory Kingfisher Way Hinchingbrooke Business Park Huntingdon Cambridgeshire PE29 6FL	Local contact Mrs R Felton Tel: +44 (0)1480 325709 Fax: +44 (0)1480 325705 Email: rfelton@anglianwater.co.uk Website: www.anglianwater.co.uk	Testing: Chemical and microbiological Support: Reporting	A
Address Anglian Water Services Huntingdon Laboratory Kingfisher Way Hinchingbrooke Business Park Huntingdon Cambridgeshire PE29 6FL	Local contact Mrs R Felton Tel: +44 (0)1480 325709 Fax: +44 (0)1480 325705 Email: rfelton@anglianwater.co.uk Website: www.anglianwater.co.uk			

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Waste Water Treatment Works	Sampling	B
Water Treatment Works Service Reservoirs, domestic premises, ground and surface water sources	Sampling and on-site testing	C



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS	<u>Chemical and Physical Tests</u>		
Raw and potable waters	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS).	Documented In-house procedures based on/incorporating published Procedures in the HMSO Series 'Methods for the Examination of Waters and Associated Materials' referenced by the ISBN number and year. Additional or alternative references are identified where appropriate.	
	Alkalinity	Method No WAT-001 (manual) ISBN 011 751 601 5, 1981	A
	Alkalinity	Method No WAT-060 by discrete colorimetric analyser ISBN 011 751 601 5, 1981	A
	Ammonium	Method No WAT-032 ISBN 011 751 613 9, 1981 by discrete colorimetric analyser	A
	Chloride	Method No WAT-033 by discrete colorimetric analyser	A
(Potable Water, Ground Water and Surface Water)	Chlorate Bromide	Method No WAT-068 by Ion Chromatography	A
(Potable Water, Ground Water and Surface Water)	Bromate	Method No WAT-069 by Ion Chromatography	A
Raw and potable waters	Colour	Method No WAT-006 ISBN 011 751 955 3, 1981, Method 3 by spectrometry	A
(Raw and potable water only)	Cyanide: Total	Method No WAT-044 ISBN 011 752 219 8, 1988	A
	Dissolved Oxygen	2) Method No WAT-008a ISBN 011 751 630 9, 1981 by probe	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS).	
Raw and potable waters (cont'd)	Electrical Conductivity	1) Method No WAT-009 ISBN 011 751 428 4, 1978, Method A by conductivity meter	A
	Fluoride	2) Method No WAT-047 ISBN 011 751 428 4, 1978 Method No WAT-010 ISBN 011 751 662 7, 1978 by ion selective electrode	A
	Hardness, Total	Method No WAT-038 (calculated from ICP data)	A



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WATERS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS).	
(Drinking Water, Ground Water and Surface Water)	<u>Metals (cont'd)</u> Aluminium Antimony Arsenic Barium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Phosphate: Total Inorganic Potassium Selenium Silica Silver Sodium Sulphate (as Sulphur) Uranium Vanadium Zinc	Method WAT-018 by ICP-MS	A
Raw and Potable water	Nitrate	By calculation (oxidised nitrogen - nitrite) WAT-035 - WAT-034 by discrete colorimetric analyser	A
	Nitrite	1) Method No WAT-034 ISBN 011 751 458 6, 1979 by discrete colorimetric analyser	A



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS).	
Raw and Potable water (cont'd)	Oxidised Nitrogen (nitrate + nitrite)	1) Method No WAT-035 ISBN 751 593 0, 1981 by discrete colorimetric analyser	A
	Organic Carbon: Total	Method No WAT-020 ISBN 011 751 458 6, 1979 by TOC analyser	A
	Phosphorus, reactive	1) Method WAT-045 ISBN 01175 158 25 by discrete colorimetric analyser	A
	pH	1) Method No WAT-023 ISBN 011 751 428 (Method B), 1978 by manual pH electrode and robotic determination 2) Method No WAT-048 ISBN 011 751 428	A
Potable Water only	Threshold Taste and Odour Number	Method No WAT-025 based on SCA "The determination of taste and odour in drinking waters (2010)" using assessed panel	A
Potable Water only	Qualitative Taste	Method WAT 029	A
Raw water only	Threshold Odour Number	Method No WAT-026 ISBN 011 751 597 3 (Method A3), 1978	A
Potable and Raw water	Qualitative Odour	Method WAT 029	A
Raw and potable waters	Turbidity	1) Method No WAT-027 ISBN 011 751 955 3, 1981 by nephelometry	A
		2) Method No WAT-049 ISBN 011 751 955 3, 1981	A



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS).	
Raw and potable waters (cont'd)	<u>Polycyclic Aromatic Hydrocarbons (PAHs):</u> Fluoranthene Benzo(b) Fluoranthene Benzo(k) Fluoranthene Benzo(a) Pyrene Benzo (ghi) Perylene Indeno (1,2,3-cd) Pyrene	CL/TO/05 Liquid chromatography	A
	Sum of: Benzo(b) Fluoranthene Benzo(k) Fluoranthene Benzo(ghi) Perylene Indeno (1,2,3-cd) Pyrene	By calculation	A
Raw, surface and potable waters	<u>Volatiles</u> 1,2-dichloroethane 1,1,1-trichloroethane Benzene Bromodichloromethane Bromoform Tetrachloromethane Chloroform Dibromochloromethane TBME Trichloroethene Toluene Tetrachloroethene	In house method CLTO 034 by headspace GCMS	A
	Sum of: Trichloroethene Tetrachloroethene	By calculation	A



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WATERS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS).	
Raw (surface and groundwater) and potable, waters	Metaldehyde	CL/TO/046 by LC-MS-MS	A
Raw, surface and potable waters	<u>Phenylurea, Triazine and other herbicides</u> Metamitron Chloridazon Carbetamide Monuron Cyanazine Simazine Chlorotoluron Diuron Atrazine Isoproturon Prometryn Terbutryn Linuron Propazine Terbutylazine Trietazine	CL/TO/033 by LC QQQ	A
Ground, potable and surface waters	Carbendazim Quinmerac Metazachlor Ethofumesate Flufenacet	CL/TO/057 by LC-MS-MS	A



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS).	
Raw, surface and potable waters (cont'd)	<u>Acid Herbicides</u> 2,4-D 2,4-DB 2,4,5-T Benazolin Bentazone Bromacil Bromoxynil Clopyralid Dichlorprop Fluroxypyr Ioxynil MCPA MCPB MCPB MCPB Picloram Propyzamide Triclopyr	CL/TO/035 by direct aqueous injection LC-MS-MS	A
Raw (surface and groundwater) and potable, water	Glyphosate AMPA	CL/TO/036D by LC-MS-MS	A
Raw (groundwater) and Potable Water	<u>Organochlorine Pesticides:</u> Aldrin Heptachlor epoxide Heptachlor Dieldrin	CL/TO/047 by GC-MS-MS	A



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WATERS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS).	
Raw (surface and groundwater) and Potable Water	<u>Phenylurea, Triazine and other herbicides:</u> Atrazine Carbetamide Chloridazon Chlorotoluron Cyanazine Diuron Isoproturon Linuron Metamitron Monuron Prometryn Propazine Simazine Terbutylazine Terbutryn Trietazine	CL/TO/048 by LC-TOF-MS	A
WATERS	<u>Microbiological Tests</u>		
Raw and Potable Waters	Testing for the purpose of enforcement of the Water Supply (water quality) Regulations 2016 [SI 614]. The testing is in accordance with the Drinking Water Testing Specification (DWTS). <u>Isolation and Enumeration of:-</u> Coliforms (presumptive and confirmed)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials, Environment Agency publication: "The Microbiology of Drinking Water 2002" Part numbers and publication dates given where applicable: Method No MIC-001 (membrane filtration, using MLSB) Based on The Microbiology of Drinking Water Part 4 (2009)	A



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)		
Raw and Potable Waters (cont'd)	<i>Clostridium perfringens</i> , confirmed	Method No MIC-010 (membrane filtration) Based on The Microbiology of Drinking Water Part 6 (2010)	A
	<i>Escherichia coli</i> (presumptive and confirmed)	Method No MIC-001(membrane filtration using MLSB) Based on The Microbiology of Drinking Water Part 4 (2009)	A
	<i>Enumeration of Coliforms & Escherichia coli</i> (presumptive and confirmed)	Method No MIC-013 (by MPN using Idexx Coliart) Based on The Microbiology of Drinking Water Part 4 (2009)	A
	Total Viable Counts: 1 day, 37 °C 2 day, 37 °C 3 day, 22 °C 7 day, 22 °C	Method No MIC-002 (pour plate method) Based on The Microbiology of Drinking Water Part 7 (2007)	A
	Enterococci	Method No MIC-003 (membrane filtration) Based on The Microbiology of Drinking Water Part 5 (2010)	A
Raw and Potable waters	Isolation and Enumeration of <i>Pseudomonas aeruginosa</i>	Method No MIC008 by membrane filtration based on MODW part 8 (2010)	A
WATERS	<u>Biological Tests</u>		
Raw and Potable Waters	<i>Cryptosporidium</i> oocysts	Documented In-House Method CRYP 002 to CRYP 008 based on Blue Book 225 - The Microbiology of Drinking Water (2009) - Part 14 - Methods for the isolation, identification and enumeration of <i>Cryptosporidium</i> oocysts and <i>Giardia</i> cysts	A
	Algal Identification and Enumeration	Method No BIO-001 ISBN 011 572 307 0 By microscopic examination	A



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WATERS (cont'd)	<u>Biological Tests</u> (cont'd)		
	Biotic Indexing	Method No BIO-002 ISBN 011 751 790 0	A
Raw and Potable	Zooplankton: Identification and Enumeration	Method BIO-004 By microscopic examination	A
WATERS Potable and cooling waters	<u>Microbiological Tests</u>	Documented in house methods based on/incorporating published procedures in the HMSO Series 'Methods for the Examination of Waters and Associated Materials', referenced by the ISBN number	
Bottled waters	Isolation and Enumeration of <i>Pseudomonas aeruginosa</i>	Method No MIC008 by membrane filtration based on MODW part 8 (2010)	A
WATERS Raw	<u>Chemical Tests</u>	Documented in house methods	
	Biochemical Oxygen Demand	Method No WAS-002 ISBN 011 752 212 0, 1988 ISBN 011 751 630 9, 1981 ISBN 011 751 442 X, 1979	A
	Solids: Suspended	Method No WAS-010 ISBN 011 751 957 X, 1980	A



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POTABLE AND RAW WATERS	For the purpose of enforcement of The Water Supply (Water Quality) Regulations 2016 (SI 614)	Where applicable the methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)	
From: Consumer taps Service reservoirs Water treatment works	Sampling: For Chemical and Microbiological Testing (including Cryptosporidium)	Documented In-house Procedures SAMPMAN 009	C
Raw waters including: Surface Waters: Groundwater: boreholes	<u>On-site Testing</u>	Documented In-House Methods:	
Potable Water	Free Residual Chlorine Total Residual Chlorine	Method SAM001	C
WASTEWATERS: Untreated and treated domestic wastewaters	<u>Chemical Tests and Physical Tests</u>	Documented in-house methods based on/incorporating published procedures in the HMSO Series 'Methods for the Examination of Waters and Associated Materials', referenced by the ISBN number	
Untreated and treated domestic wastewaters	Ammoniacal Nitrogen (as N)	Method No WAS-001 ISBN 011 751 613 9, 1981	A
Untreated and treated domestic wastewaters	Biochemical Oxygen Demand	Method No WAS-002 ISBN 011 752 212 0, 1988 ISBN 011 751 630 9, 1981 ISBN 011 751 442 X, 1979	A
Untreated and treated domestic wastewaters and trade effluent	Chemical Oxygen Demand	Method No WAS-003 ISBN 011 751 915 4, 1986	A
Untreated and treated domestic wastewaters	Chloride	Method No WAS-004 ISBN 011 751 626 0, 1981	A
Final Effluent and Trade effluent to controlled waters	Alkalinity	Method WAS 020 by manual titration	A
Treated Sewage Effluent	Total Cyanide	Method WAS 041 by Continuous Flow Colourimetry	A
Treated Sewage Effluent	Silver	Method No WAT-018 by ICPMS	A



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WASTEWATERS: Untreated and treated domestic wastewaters (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented in-house methods based on/incorporating published procedures in the HMSO Series 'Methods for the Examination of Waters and Associated Materials', referenced by the ISBN number (cont'd)	
Untreated and treated domestic wastewaters and trade effluent	<u>Metals</u> Cadmium Chromium Copper Iron Lead Nickel Phosphorus Zinc	1) Method No WAS-005 ISBN 011 750 015 1, 1980 ISBN 011 753 244 4, 1996 2) Method No WAS-018	A
Untreated and treated domestic wastewaters	Nitrate (by calculation)	Methods WAS-008 - WAS-006	A
Untreated and treated domestic wastewaters	Nitrite	Method No WAS-006 ISBN 011 751 593 0, 1981	A
Untreated and treated domestic wastewaters	Nitrogen, total	Method No WAS-011	A
Untreated and treated domestic wastewaters	Orthophosphate	Method No WAS-007 ISBN 011 751 582 5, 1980	A
Untreated and treated domestic wastewaters	Total Oxidised nitrogen (Nitrate and Nitrite)	Method No WAS-008 ISBN 011 751 593 0, 1981	A
Untreated and treated domestic wastewaters and trade effluent	pH	Method No WAS-009 ISBN 011 752 084 5, 1988 Manual pH electrode and robotic determination	A
Untreated and treated domestic wastewaters and trade effluent	Solids: Suspended	Method No WAS-010 ISBN 011 751 957 X, 1980	A
Untreated and treated domestic wastewaters	Glyphosate AMPA	CL/TO/036D by LC-MS-MS	A
Trade Effluent	Fats and Oils	Method WAS022 by Foss 2050 Soxtec extraction and gravimetric analysis	A



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WASTEWATERS: Untreated and treated domestic wastewaters (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent	
Treated Sewage Effluent and Trade Effluent (WTW)	<u>Sampling</u> For Chemical Testing	Method PROC 148 using manual spot sampling	B, C
Trade effluent (to controlled water)	On-site measurement of free and total residual chlorine	Method PROC 148 by colorimetry	C
WASTEWATERS: Untreated and treated domestic wastewaters	<u>Chemical Testing</u>	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Waters Performance Standard	
Trade effluent (to controlled water) and Treated Sewage Effluent	pH	Method No WAS 009 by pH meter	A
Trade effluent (to controlled water) and Treated Sewage Effluent	Chloride	Method No WAS 004 by discrete autoanalyser	A
Treated Sewage Effluent & Trade effluents to controlled waters	Biochemical Oxygen Demand	Method No WAS-002 by dissolved oxygen meter	A
Treated Sewage Effluent & Trade effluents to controlled waters	Suspended solids	Method No WAS-010 by Vacuum Filtration and gravimetry	A
Treated Sewage Effluent & Trade effluents to controlled waters	Ammonium	Method No WAS-001 by discrete colorimetric analyser	A
Trade effluent (to controlled water)	Alkalinity	Method WAS 020 by manual Titration	A
Trade effluent (to controlled water)	Conductivity	Method WAS 021 by manual probe	A
Trade effluent (to controlled water)	<u>TON</u> (Total Oxidised Nitrogen)	Method WAS 008 by discrete analyser	A



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<p>WASTEWATERS: Untreated and treated domestic wastewaters (cont'd)</p> <p>Treated Sewage Effluent</p>	<p><u>Chemical Testing</u> (cont'd)</p> <p><u>Metals</u> Copper Cadmium Chromium Nickel Lead Iron Zinc Phosphorous Aluminium</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Waters Performance Standard</p> <p>Method No WAS-018 by ICPMS</p>	A
<p>Trade Effluent to controlled water</p>	<p>Iron Chromium Arsenic Manganese Sulphate (as S)</p>	<p>Method No WAS-018 by ICPMS</p>	A
<p>Treated Sewage Effluent</p>	<p>Mercury</p>	<p>Method No WAT-018 by ICPMS</p>	A



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LAND	<u>Chemical Tests and Physical Tests</u>	Documented in House methods	
A component part of which is SOIL	<u>Extractable Metals</u> Magnesium Phosphorus Potassium	MAFF/ADAS, ISBN 011 242 762 6 MAFF booklet RB209 ISBN 011 242 935 1 Method No SAS-023	A
A component part of which is SOIL	Fluoride	Method No SAS-004 SCA MEWAM ISBN 011 751 662 7 by ion selective electrode	A
A component part of which is SOIL	<u>Metals</u> Arsenic Cadmium Chromium Copper Lead Mercury Molybdenum Nickel Selenium Zinc	Method SAS-016 by ICP MS	A
A component part of which is SOIL	pH	Method No SAS-008 ISBN 011 751 252 4 MAFF/ADAS ISBN 011 242 762 6 and EPA ISBN 156 670 163 5 by manual pH electrode and robotic determination	A
	Soil Density	Method No SAS-010 MAFF/ADAS ISBN 011 242 762 6	A



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SLUDGES	<u>Chemical Tests and Physical Tests</u>	Documented in House methods	
	Fluoride	Method No SAS-004 by Ion Selective Electrode	A
	<u>Extractable Nitrogen</u>	Method No SAS-012 by Colourimetry	A
	pH	Method No SAS-017 by probe	A
	<u>Dry Solids & Volatile Organic Matter</u>	Method No SAS-014 by Gravimetry	A
	<u>Metals:</u> <u>Arsenic</u> <u>Cadmium</u> <u>Chromium</u> <u>Copper</u> <u>Lead</u> <u>Mercury</u> <u>Molybdenum</u> <u>Nickel</u> <u>Selenium</u> <u>Zinc</u>	Method No SAS-016 by ICPMS A7900 only	A
Bio Solids	<u>Microbiological Tests</u> <u>Qualitative Isolation (Presence/Absence)</u> <u>Salmonella</u>	Method MIC012 based on The Microbiology of Sewage Sludge (2004) - Part 4	A
END			