


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 1229 Accredited to ISO/IEC 17025:2017	Severn Trent Water Limited Issue No: 111 Issue date: 18 March 2025	
	Bridgend Science Park 2 Technology Drive Bridgend Mid-Glamorgan CF31 3NA	Contact: Mrs M J Harman Tel: +44 (0)7889632203 Fax: +44 (0)1656 646525 E-Mail: michelle.harman@severntrent.co.uk Website: www.stwater.co.uk
Testing performed by the Organisation at the locations specified		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Bridgend Science Park 2 Technology Drive Bridgend Mid Glamorgan CF31 3NA	Local contact Mr K Denny Tel: +44 (0) 7889 805975 Email: kevin.denny@severntrent.co.uk	Testing: Chemical	B
Address Church Wilne Laboratory Church Wilne STW Draycott Road Sawley Long Eaton Nottingham NG10 3AZ	Local contact Beata Michalik Tel: +44 (0) 7976 758052 Email: beata.michalik@severntrent.co.uk	Testing: Microbiological Sampling and on site testing: Co-ordination of the sampling of water for subsequent chemical, microbiological and cryptosporidium testing	CW
Address Shelton Laboratory Welshpool Road Shelton Shrewsbury SY3 8BJ	Local contact Beata Michalik Tel: +44 (0) 7976 758052 Email: beata.michalik@severntrent.co.uk	Testing: Microbiological Sampling and on site testing: Co-ordination of the sampling of water for subsequent chemical, microbiological and cryptosporidium testing	S



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Location details	Activity	Location code
Address Campion Hills WTW Black Lane Leamington Spa CV32 7AU Local contact Rebecca Davies Tel: +44 (0) 7773 259108 Email: rebecca.davies@severntrent.co.uk	Sampling and on site testing: Co-ordination of the sampling of water for subsequent chemical, microbiological and cryptosporidium testing	L
Address Mythe WTW Mythe Road Tewkesbury Gloucester GL20 6AA Local contact Rebecca Davies Tel: +44 (0) 7773 259108 Email: rebecca.davies@severntrent.co.uk	Sampling and on site testing: Co-ordination of the sampling of water for subsequent chemical, microbiological and cryptosporidium testing	M
Address Tittesworth WTW Meerbrook Leek Staffordshire ST13 3SW Local contact Rebecca Davies Tel: +44 (0) 7773259108 Email: rebecca.davies@severntrent.co.uk	Sampling and on site testing: Co-ordination of the sampling of water for subsequent chemical, microbiological and cryptosporidium testing	N
Address Leicester Water Centre Anstey Lane Leicester LE7 7GU Local contact Rebecca Davies Tel: +44 (0) 7773259108 Email: rebecca.davies@severntrent.co.uk	Sampling and on site testing: Co-ordination of the sampling of water for subsequent chemical, microbiological and cryptosporidium testing	O



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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 Tests</u> (cont'd)		
Potable, Raw, Surface and Groundwaters	Polycyclic Aromatic Hydrocarbons: Benz(b)fluoranthene Benz(k)fluoranthene Benz(a)pyrene Benz(g,h,i)perylene Indeno(1,2,3-cd)pyrene Total PAH (by calculation)	1) 51002B using solvent extraction and detection by GC-MS	B
Potable, Raw, Surface and Groundwaters	Polar pesticides: Atrazine Carbendazim Carbetamide Chlortoluron Diazinon Diflufenican Diuron Ethofumesate Fosthiazate Isoproturon Metamitron Metazachlor Pendimethalin Propiconazole Propyzamide	51015B using direct injection LCMSMS (LC triple quadruple MS)	B



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Potable, Raw, Surface and Groundwaters	Trichloromethane (chloroform) Bromodichloromethane Chlorodibromomethane Tribromomethane (bromoform) Total THMS (by calculation) Tetrachloromethane (carbon tetrachloride) Trichloroethene Tetrachloroethene Total Trichloroethene and Tetrachloroethene (by calculation) 1,1,1 trichloroethane 1,2 dichloroethane 1,2 dibromoethane Methyl tertiary butyl ether (MTBE) Tertiary Amyl Methyl Ether (TAME) Benzene Toluene Ethylbenzene o-xylene m/p-xylene Total Xylenes (by calculation)	51019 using headspace and detection by GCMS	B
Drinking, Surface and Groundwater	Glyphosate	51028B using automated MPS FMOC derivatisation and analysis by LCQQQ	B
Potable, Raw, Surface and Groundwaters	Organochlorine Pesticides, and Selected Non-Polar Organic Compounds: Heptachlor Aldrin cis-Heptachlor Epoxide trans-Heptachlor Epoxide Dieldrin Tri-allate	51021 using GC MS MS	B



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Potable, Raw, Surface and Groundwaters	Pesticides: Asulam Azoxystrobin Boscalid Chloridazon Dimethamid p Epoxiconazole Flufenacet Metalaxyl Metribuzin Oxadixyl Quinmerac Prosulfocarb Tebuconazole	51027 using LC-HRMS	B
	Poly and Perfluorinated Alkyl Substances (PFAS) Scope and matrices listed in Appendix 1	51032 Solid phase extraction, Analysis by HPLC and quantification by LCQQQ	B
	Sum of PFAS (48 compounds as listed in Appendix 1)	51032 by calculation	B
Potable water and Bottled water (Emergency Water, bought in)	Odour, threshold number of treated water	71017 Quantitative, based on Microbiology of Drinking Water part 11 2014	B
Potable water and Bottled water (Emergency Water, bought in)	Taste, Threshold number of treated water	71017 Quantitative based on Microbiology of Drinking Water part 11 2014	B
Potable, Raw, Surface and Groundwaters	Bromate Bromide Chlorate Chlorite	51001 using Ion Chromatography Metrohm	B



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Potable, Raw, Surface and Groundwaters	Total and dissolved metals: Arsenic Boron Barium Cadmium Chromium Copper Molybdenum Nickel Lead Antimony Selenium Uranium Zinc	61011 using Agilent 7900 ICP-MS	B
Potable, Raw, Surface and Groundwaters	Elements: Aluminium Calcium Iron Magnesium Manganese Potassium Sodium	61002 using ICP-OES	B



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Potable, Raw, Surface and Groundwaters	Mercury	61012 using digestion and ICP-MS analysis	B
Potable, Raw, Surface and Groundwaters	Phosphorus	61006 using ICP-MS	B
Potable, Raw, Surface and Groundwaters, Bottled water (Emergency Water, bought in)	Conductivity	Method 71005 using manual conductivity meter and robotic determination	B
Potable, Raw, Surface and Groundwaters	Cyanide (Total)	Method 71001 using segmented flow analysis	B
Potable, Raw, Surface and Groundwaters	Fluoride	Method 71003 using Ion selective electrode manual and automated	B
Potable, Raw, Surface and Groundwaters	Ammonium Nitrite Chloride Orthophosphate Sulphate TON Silicate Alkalinity Nitrate (by calculation)	Method 61001 using Konelab	B
Potable, Raw, Surface and Groundwaters	Ammonium Nitrite Chloride Orthophosphate Sulphate TON Silicate Alkalinity Nitrate (by calculation)	Method 61001B using AMS Alliance Smartchem 600 discrete analyser	B
Potable, Raw, Surface and Groundwaters, Bottled water (Emergency Water, bought in)	pH	Method 71007 using manual pH electrode and robotic determination	B



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Potable, Raw, Surface and Groundwaters, Bottled water (Emergency Water, bought in)	Turbidity	Method 71008 using a manual turbidity meter and robotic determination	B
Potable, Raw, Surface and Groundwaters	Organic Carbon/Non Purgeable Organic Carbon	Method 71010 using combustion and NDIR gas analysis	B
Potable, Raw, Surface and Groundwaters, Bottled water (Emergency Water, bought in)	Colour	Method 71006 visible spectrometry and robotic determination	B
Potable, Raw, Surface and Groundwaters	UV absorbance and % transmission	Method 71014 using spectrometry	B
Potable, Raw, Surface and Groundwaters, Bottled water (Emergency Water, bought in)	pH Electrical Conductivity Turbidity Colour	Method 76017 using Skalar automated robot	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS: Potable, Raw (Surface, Ground and Spring) Waters, Bottled water (Emergency Water, bought in)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 (SI 614). and Water Supply (Water Quality) Regulations 2010 (Wales) as amended (where relevant) <u>Testing is in accordance with the Drinking Water Testing Specification (DWTS)</u> <u>Microbiological Testing</u>	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Coliforms and Escherichia coli, presumptive and confirmed	In-house method 21032 based on "The Microbiology of Drinking Water" Part 4 (2016) by membrane filtration (method 21025) using MLGA	CW, S
	Clostridium perfringens, presumptive and confirmed	In-house method 21031 based on "The Microbiology of Drinking Water" Part 6 (2021) by membrane filtration (method 21025) using TSC	CW, S
	Heterotrophic plate counts at 22°C	In-house method 21038 based on "The Microbiology of Drinking Water" Part 7 (2020) by pour plate using YEA	CW, S
	Enterococci, presumptive and confirmed	In-house method 21030 based on "The Microbiology of Drinking Water" Part 5 (2012) by membrane filtration (method 21025) using MEA	CW, S



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WATERS: Potable, Raw (Surface, Ground and Spring) Waters only	<u>Microbiological Testing</u> (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials (cont'd)	
Swab samples	Cryptosporidium	In-house method 30001 based on "The Microbiology of Drinking Water" Part 14 (2010) using FiltaMax® and FiltaMax Xpress™ and 11 immune fluorescent staining for identification by microscopy	CW
Viscose tipped stick swabs in nutrient broth transport medium	Detection of:	In-house method 21055 using elution and growth characterisation in;	
	Coliforms, confirmed Escherichia coli, confirmed Enterococcus, confirmed <i>Clostridium perfringens</i> , presumptive	Colilert 18 media Colilert 18 media Enterolert media Membrane filtration and TSC media	CW, S
Bacterial isolates from the testing of Potable, Raw (Surface, Ground) Waters using relevant in house microbiology isolation methods: 21030 21031 21032	Characterisation and confirmation of: Clostridium perfringens Coliforms E.coli Enterococci	In-house method 21090 using MALDI-TOF (Matrix Assisted Laser Desorption Ionisation – Time of Flight)	CW, S



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WATER TREATMENT WORKS: Raw and Drinking water sources	Sampling and site testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 (SI 614). and Water Supply (Water Quality) Regulations 2010 (Wales) as amended (where relevant) <u>Sampling is in accordance with the Drinking Water Testing Specification (DWTS)</u>	Methodology meeting the requirements of the Drinking Water Testing Specification	CW, S, L, M, N, O
RESERVOIRS: Sampling taps	<u>Sampling</u>		
HOUSEHOLD AND INDUSTRIAL: Drinking water taps	For subsequent Chemical, Microbiological and Cryptosporidium analysis	In house methods: 81001S Taking, handling and storage of samples - STW and HD Sites 81003S Other sampling (Cryptosporidium)	CW, S, L, M, N, O
CRYPTOSPORIDIUM RIGS			
SAMPLE TAPS	Sampling using viscose stick swabs in nutrient broth transport medium for subsequent Microbiological analysis		
WATER TREATMENT WORKS: Raw and Drinking water sources	<u>Chemical Tests</u> Total Residual Chlorine Free Residual Chlorine	In house method: 81002S Chlorine Analysis, Meter Use, Calibration and AQC 81005S validation and support processes	
END			



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Appendix 1

Poly and Perfluorinated Alkyl Substances (PFAS) x48

In house Method **51032** Solid phase extraction, Analysis by HPLC and quantification by LCQQQ
Range LOD to 0.125µg/l & LOD to 0.300µg/l

ISO/IEC 17025 & DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

PFBA (375-22-4) PFPeA (PFPA) (2706-90-3) PFHxA (307-24-4) PFHpA (375-85-9) PFOA (335-67-1) PFNA (375-95-1) PFDA (335-76-2) PFUndA (2058-94-8) PFDaA (307-55-1) PFTTrDA (72629-94-8) PFTDA (PFTeA) (376-06-7) PFHxDA (67905-19-5) PFODA (16517-11-6) PFBS (375-73-5) PFPeS (PFPS) (2706-91-4) PFHxS (355-46-4)	PFHpS (375-92-8) PFOS (1763-23-1) PFNS (68259-12-1) PFDS (335-77-3) PFUnDS (749786-16-1) PFDoS (79780-39-5) HFPO-DA (Gen X) (13252-13-6) HFPO-TA (13252-14-7) DONA (919005-14-4) PFMOPrA (377-73-1) NFDHA (151772-58-6) PFMOBA (863090-89-5) PFecHS (335-24-0) 3:3 FTCA (356-02-5) 5:3 FTCA (914637-49-3) 7:3 FTCA (812-70-4)	PFEEESA (113507-82-7) 9CI-PF3ONS (756426-58-1) 11CI-PF3OUdS (763051-929) 4:2 FTSA (757124-72-4) 6:2 FTSA (27619-97-2) 8:2 FTSA (39108-34-4) FBSA (30334-69-1) FHxSA (41997-13-1) FOSA (754-91-6) MeFOSA (31506-32-8) EtFOSA (4151-50-2) MeFOSE (24448-09-7) EtFOSE (1691-99-2) MeFOSAA (2355-31-9) EtFOSAA (2991-50-6) 6:2:FTAB (Capstone B) (34455-29-3)
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