

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>1229</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Severn Trent Water Limited</p> <p>Issue No: 099 Issue date: 20 August 2021</p>	
	<p>Bridgend Science Park 2 Technology Drive Bridgend Mid-Glamorgan CF31 3NA</p>	<p>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</p>
<p>Testing performed by the Organisation at the locations specified</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

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



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



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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
<p>WATERS</p> <p>Potable, Raw, Surface and Groundwaters</p>	<p>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)</p> <p><u>The testing is in accordance with the Drinking Water Testing Specification (DWTS)</u></p> <p><u>Chemical Tests:</u></p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials, HMSO Publication, Year and ISBN No given where applicable</p>	
<p>Potable, Raw, Surface and Groundwaters</p>	<p>Acid Herbicides:</p> <p>2,3,6-TBA 2,4-D 2,4-DB Benazolin Bentazone Bromoxynil Clopyralid Dicamba Dichlorprop Fluroxypyr MCPA Mecoprop Metaldehyde Triclopyr</p> <p>Total pesticides (by Calculation)</p>	<p>51031 using direct injection LCMSMS</p>	<p>B</p> <p>B</p>



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WATERS (cont'd)	<u>Chemical Tests (cont'd)</u>		
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 Flutriafol Fosthiazate Isoproturon Linuron Metamitron Metazachlor Pendimethalin Propiconazole Propyzamide Simazine Terbutryn Triadimefon	51015B using direct injection LCMSMS (LC triple quadruple MS)	B



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WATERS (cont'd) Potable, Raw, Surface and Groundwaters	<u>Chemical Tests (cont'd)</u> 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, Polychlorinated Biphenyls 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 (cont'd)</u>		
Potable, Raw, Surface and Groundwaters	Pesticides: Asulam AzoxystrobinBoscalid Chloridazon Cyproconazole Dimethamid p Epoconazole Flufenacet Metalaxyl Metribuzin Oxadixyl Quinmerac Prosulfocarb Tebuconazole	51027 using LC-HRMS	B
Potable water only	Odour, threshold number of treated water	71017 Quantitative, based on Microbiology of Drinking Water part 11 2014	B
Potable water only	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 (cont'd)</u>		
Potable, Raw, Surface and Groundwaters	Total and dissolved metals: Antimony Arsenic Boron Barium Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Uranium Zinc	61003 using Nexion ICPMS	B
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 (cont'd)</u>		
Potable, Raw, Surface and Groundwaters	Mercury	61012 using digestion and ICP-MS analysis	B
Potable, Raw, Surface and Groundwaters	Phosphorus	HMSO:1996 ISBN 11 753 244 4 61006	B
Potable, Raw, Surface and Groundwaters	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 Nitrate (by calculation)	Method 61001B using AMS Alliance Smartchem 600 discrete analyser	B
Potable, Raw, Surface and Groundwaters	pH	Method 71007 using manual pH electrode and robotic determination	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Potable, Raw, Surface and Groundwaters	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
WATERS (cont'd)	<u>Chemical Tests (cont'd)</u>		
Potable, Raw, Surface and Groundwaters	Colour	Method 71006 visible spectrometry and robotic determination	B
Potable, Raw, Surface and Groundwaters	UV absorbance and % transmission	Method 71014 using spectrometry	B
	pH Electrical Conductivity Turbidity Colour	Method 76017 using Skalar automated robot	B
	<u>Radiochemical Tests</u>		
Potable Water only	Gross Alpha (relative to Am-241) and Gross Beta (relative to K-40) activity	61007 using gas-flow proportional counting	B
Potable Water only	Tritium	61008 using liquid scintillation counting	B



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<p>WATERS:</p> <p>Potable, Raw (Surface, Ground and Spring) Waters</p>	<p>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)</p> <p><u>Testing is in accordance with the Drinking Water Testing Specification (DWTS)</u></p> <p><u>Microbiological Testing</u></p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials</p>	
	<p>Coliforms and Escherichia coli, presumptive and confirmed</p>	<p>In-house method 21032 based on "The Microbiology of Drinking Water" Part 4 (2009) by membrane filtration (method 21025) using MLGA</p>	CW, S
	<p>Clostridium perfringens, presumptive and confirmed</p>	<p>In-house method 21031 based on "The Microbiology of Drinking Water" Part 6 (2010) by membrane filtration (method 21025) using TSC</p>	CW, S
	<p>Heterotrophic plate counts at 22°C and 37°C</p>	<p>In-house method 21038 based on "The Microbiology of Drinking Water" Part 7 (2012) by pour plate using YEA</p>	CW, S
	<p>Enterococci, presumptive and confirmed</p>	<p>In-house method 21030 based on "The Microbiology of Drinking Water" Part 5 (2012) by membrane filtration (method 21025) using MEA</p>	CW, S



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<p>WATERS:</p> <p>Potable, Raw (Surface, Ground and Spring) Waters (cont'd)</p>	<p><u>Microbiological Testing</u> (cont'd)</p> <p>Cryptosporidium</p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials (cont'd)</p> <p>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</p>	<p>CW</p>
<p>Swab samples</p> <p>Polyester tipped stick swabs in neutralising buffer transport medium</p>	<p>Detection of;</p> <p>Coliforms, confirmed Escherichia coli, confirmed</p>	<p>In-house method 21055 using elution and growth characterisation in Colilert-18 media</p>	<p>CW, S</p>



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<p>WATER TREATMENT WORKS: Raw and Drinking water sources</p> <p>RESERVOIRS: Sampling taps</p> <p>HOUSEHOLD AND INDUSTRIAL: Drinking water taps Hydrants</p> <p>CRYPTOSPORIDIUM RIGS</p> <p>SAMPLE TAPS</p> <p>WATER TREATMENT WORKS: Raw and Drinking water sources</p>	<p>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)</p> <p><u>Sampling is in accordance with the Drinking Water Testing Specification (DWTS)</u></p> <p><u>Sampling</u></p> <p>For subsequent Chemical, Microbiological and Cryptosporidium analysis</p> <p>Sampling using stick swabs in neutralising buffer, for subsequent Microbiological analysis</p> <p><u>Chemical Tests</u></p> <p>Total Residual Chlorine Free Residual Chlorine</p>	<p>Methodology meeting the requirements of the Drinking Water Testing Specification</p> <p>In house methods: 81001S Taking, handling and storage of samples - STW and HD Sites 81003S Other sampling (Cryptosporidium)</p> <p>In house method: 81002S Chlorine Analysis, Meter Use, Calibration and AQC 81005S validation and support processes</p>	<p>CW, S, L, M, N, O</p> <p>CW, S, L, M, N, O</p>
END			