

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK



1229

Accredited to
ISO/IEC 17025:2005

Severn Trent Laboratories, Bridgend

Issue No: 052 Issue date: 10 April 2012

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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
WATERS	<u>Bacteriological Tests</u>	
Potable, Raw, Surface and Groundwaters	<u>Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2000 (SI 2000/3184).</u> <u>The testing is in accordance with the Drinking Water Testing Specification (DWTS)</u>	Documented In-House Methods based on the Standing Committee of Analysts Publication "The Microbiology of Water, 2002" unless stated otherwise
Potable, Raw, Surface and Groundwaters	<i>Clostridium perfringens</i> - Confirmation - Presumptive count - Sulphite reducing clostridia	SAA 12 based on "The Microbiology of Drinking Water, 2004", Part 6 using membrane filtration
Potable, Raw, Surface and Groundwaters	<i>Enterococci faecal</i> - Confirmation - Presumptive count	SAA 2 based on "The Microbiology of Drinking Water, 2006", Part 5 using membrane filtration
Potable, Raw, Surface and Groundwaters	Viable Micro-organisms - Enumeration	SAA 4 based on "The Microbiology of Drinking Water, 2007", Part 6 using Pour Plate Method
Potable, Raw, Surface and Groundwaters	Total Coliform and <i>E coli</i>	SAA 9 using 'Colilert' SAA 13 using single membrane filtration method MLGA and Colilert for confirmation



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters (cont'd)</p>	<p><u>Chemical Tests</u></p> <p><u>Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2000 (SI 2000/3184).</u> <u>The testing is in accordance with the Drinking Water Testing Specification (DWTS)</u></p> <p>Phenolic Compounds: Phenol 3-Methylphenol 4-Methylphenol 2-Chlorophenol 3-Chlorophenol 4-Chlorophenol 3,5-Dimethylphenol 2,3-Dichlorophenol 2,4-Dichlorophenol 2,6-Dichlorophenol, 2,4,5Trichlorophenol 2,4,6-Trichlorophenol 2,5-Dimethylphenol 4-Chloro-2-Methylphenol 2-Chloro-5-Methylphenol 3-Chloro-4-Methylphenol</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>Documented In-House Methods in the Series SBD 0</p> <p>SBD 29 using Gas Chromatography with Mass Spectrometric Detection</p>
<p>Potable, Raw, Surface and Groundwaters</p>	<p>Acid Herbicides: Dicamba Mecoprop MCPA Dichlorprop 2,4-D MCPB 2,4,5-T 2,4-DB loxynil 2,3,6-TBA Fluroxypyr Triclopyr Clopypalid Bentazone Fenoprop Bromoxynil</p>	<p>SBD 5 using Gas Chromatography with Mass Spectrometric Detection (based on draft SCA Blue Book 1995)</p>



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Potable, Raw, Surface and Groundwaters (cont'd)	Acid Herbicides: (cont'd) Pentachlorophenol Benzazolin Benzene Toluene Methyltertiary Butyl Ether (MTBE) p-xylene m-xylene o-xylene Ethylbenzene 1,2 Dichloroethane	SBD 5 using Gas Chromatography with Mass Spectrometric Detection (based on draft SCA Blue Book 1995) (cont'd) SBD 28 using Gas Chromatography with Mass Spectrometric Detection
Potable, Raw, Surface and Groundwaters	Halogenated Hydrocarbons: Bromoform Carbon tetrachloride Chloroform Dibromochloromethane Dichlorobromomethane Tetrachlorethylene Trichloroethylene 1,1,1 Trichloroethane	SBD 3 using Electron Capture Gas Chromatography
Potable, Raw, Surface and Groundwaters	Polycyclic Aromatic Hydrocarbons: Benz(b)fluoranthene Benz(k)fluoranthene Benz(a)pyrene Benz(g,h,i)perylene Fluoranthene Indeno(1,2,3-cd)pyrene	SBD 1 using HPLC and Fluorescence detection
	Organochlorine Pesticides: 1,2,4-Trichlorobenzene Hexachlorobutadiene (HCBD) Dichlobenil Alpha HCH Beta HCH Gamma HCH Delta HCH Hexachlorobenzene (HCB) Chlorothalonil Heptachlor Aldrin Isodrin cis - heptachlor epoxide	SBD 30 using Gas Chromatography with Mass Spectrometric Detection and electron capture detection



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters</p> <p>Potable, Raw, Surface and Groundwaters</p> <p>Potable, Raw, Surface and Groundwaters</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Pesticides: Suburea pesticides: Chlortoluron isoproturon diuron linuron methabenzthiazuron monuron carbetamide carbendazim metamitron</p> <p>Organophosphorus pesticides: dichlorvos mevinphos demeton-s-methyl phorate propramphos diazinon dimethoate pirimiphos methyl chlorpyrifos ethyl chlorpyrifos methyl parathion malathion chlorfenvinphos carbophenothion triazophos phosalone azinphos methyl heptenophos</p> <p>Organonitrogen pesticides and triazines: simazine atrazine propazine trietazine terbutryne prometryne ametryn fenpropimorph metazachlor bromacil pendimethalin triallate</p>	<p>SBD 48 using LC triple quadrupole MS</p>



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Potable, Raw, Surface and Groundwaters (cont'd)	Carbamates, Triazoles and other pesticides: Propham Aldicarb Quinmerac Chloridazon Chlorpropham Chlorbufam Methiocarb Imazapyr Oxadixyl Asulam	SBD 50.using Solid Phase Extraction and Triple Quadropole LC/MS/MS - method
Potable, Raw, Surface and Groundwaters	Trichloromethane (chloroform) Bromodichloromethane Chlorodibromomethane Tribromomethane (bromoform) Tetrachloromethane (carbon tetrachloride) Trichloroethene Tetrachloroethene 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	SBD53 using headspace and detection by GCMS
Potable, Raw, Surface and Groundwaters	Glyphosate	SBD 37 using HPLC with Mass Spectrometry Detection
Potable, Raw, Surface and Groundwaters	Chlormequat Diquat Paraquat	SBD 41 using LC-MS
Potable water only	Metaldehyde	SBD 43 using Gas Chromatography with mass Spectrometric Detection



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<p>WATERS (cont'd)</p> <p>Potable, Raw, Surface and Groundwaters</p>	<p>Chemical Tests (cont'd)</p> <p>Organochlorine Pesticides, Polychlorinated Biphenyls and Selected Non-Polar Organic Compounds:</p> <p>1,2,4-Trichlorobenzene Hexachlorobutadiene Dichlobenil alpha-HCH beta-HCH Hexachlorobenzene gamma-HCH delta-HCH Chlorothalonil Heptachlor Aldrin Isodrin cis-Heptachlor Epoxide trans-Heptachlor Epoxide o,p'-DDE alpha-Chlordane alpha-Endosulphan p,p'-DDE Dieldrin o,p'-TDE Endrin beta-Endosulphan p,p'-TDE o,p'-DDT p,p'-DDT Methoxychlor Captan EPTC Tecnazene Trifluralin Disulphoton Fenitrothion cis-Permethrin trans-Permethrin PCB 28 PCB 52 PCB 101 PCB 118 PCB 153 PCB 138 PCB 180 Cyfluthrin</p>	<p>SBD55 using GC MS MS</p>



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WATERS (cont'd)	Chemical Tests (cont'd)	
Potable, Raw, Surface and Groundwaters	Organochlorine Pesticides, Polychlorinated Biphenyls and Selected Non-Polar Organic Compounds: Cypermethrin Fenvalerate Deltamethrin Phorate Tri-allate Chlorpyrifos-Methyl Parathion-Ethyl Chlorpyrifos-Ethyl Carbophenothion	SBD55 using GC MS MS
Potable water only	Odour, threshold number of treated water	SAA 23, SAA 8 Quantitative
Potable water only	Odour	SAA 11 Qualitative
Potable water only	Taste, Threshold number of treated water	SAA 23, SAA 8, Quantitative
	Taste	SAA 11, Qualitative
Potable waters only	Bromate Bromide Chlorite	SBC 58 using Ion Chromatography
	Total and dissolved metals: Antimony Arsenic Beryllium Boron Barium Cadmium Chromium Cobalt Copper Lead Lithium Molybdenum Nickel Selenium Silver	SBC 44 using ICPMS



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	
	Total and dissolved metals (cont.):	SBC 44 using ICPMS (cont.)
	Strontium Thallium Tin Titanium Uranium Vanadium Zinc	
	Elements: Aluminium Calcium Iron Magnesium Manganese Potassium Sodium	SBC 64 using ICP-OES
Potable, Raw, Surface and Groundwaters	Mercury	HMSO:1985 ISBN 011 751 907 3 SBC 18 using Cold vapour & Atomic Fluorescence
Potable, Raw, Surface and Groundwaters	Phosphorous	HMSO:1996 ISBN 11 753 244 4 SBC 59
Potable, Raw, Surface and Groundwaters	Alkalinity	Method BPC5 using auto-titration
Potable, Raw, Surface and Groundwaters	Anionic Surfactants	Method BPC3 using continuous flow
Potable, Raw, Surface and Groundwaters	Conductivity	Method BPC6 using manual conductivity meter and robotic determination
Potable, Raw, Surface and Groundwaters	Cyanide (Total and Free)	Method BPC2 using segmented flow analysis
Potable, Raw, Surface and Groundwaters	Fluoride	Method BPC4 using Ion selective electrode manual and automated



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Potable, Raw, Surface and Groundwaters	Ammonia Nitrite Chloride Orthophosphate Sulphate TON Silicate	Method BPC1 using Konelab
Potable, Raw, Surface and Groundwaters	Permanganate Index	Method BPC11 using titration
Potable, Raw, Surface and Groundwaters	pH	Method BCP8 using manual pH electrode and robotic determination
Potable, Raw, Surface and Groundwaters	Phosphorous, Total Inorganic	Method BPC10 using block digestion and discrete analyser (Kone)
Potable, Raw, Surface and Groundwaters	Turbidity	Method BPC9 using a manual turbidity meter and robotic determination
Potable, Raw, Surface and Groundwaters	Organic Carbon	Method BPC12 using persulphate oxidation and infra-red determination
Potable, Raw, Surface and Groundwaters	Total Dissolved Solids at 180 °C	Method BPC14
Potable, Raw, Surface and Groundwaters	Suspended Solids	Method BPC13 using gravimetry
Potable, Raw, Surface and Groundwaters	Colour	Method BPC7 visible spectrometry and robotic determination
WATERS	<u>Radiochemical Tests</u>	
Potable, Raw, Surface and Groundwaters		
Potable Water only	Gross alpha and beta activity	SBC 61
Potable Water only	Tritium	SBC 62 using liquid scintillation counting
END		