


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO/IEC 17025:2005	South East Water Ltd (trading as South East Water Scientific Services)	
	Issue No: 063 Issue date: 17 January 2019	
	3 Columbus Drive Southwood Farnborough GU14 0NZ	Contact: Mrs Helen Jones Tel: +44 (0)1634 276285 Fax: +44 (0)1634 276277 E-Mail: Helen.Jones@southeastwater.co.uk Website: www.scientific.services
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
3 Columbus Drive Southwood Farnborough GU14 0NZ Contact: Mrs Helen Jones Tel: +44 (0)1634 276285 Fax: +44 (0)1634 276277 E-Mail: Helen.Jones@southeastwater.co.uk Website: www.southeastwater.co.uk	Testing: Chemical and microbiological Support Functions: Quality Administration	A

Site activities performed away from the locations listed above:

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



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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 Tests</u>	Documented In-House Methods based on MEWAM Standing Committee of Analysts Methods	
Drinking, Surface and Ground Waters	Analysis for the purpose of the enforcement of The Water Supply (Water Quality) Regulations 2000 (Drinking, Surface and Ground Waters Only)	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)	
		<u>Colorimetry using Discrete Analyser</u>	
	Alkalinity	Method No 235	A
	Chloride	Method No 215	A
	Total Hardness	Method No 205	A
	Nitrite	Method No 225	A
	TON	Method No 245	A
	Silica	Method No 285	A
	Total Cyanide	Method No 165	A
	Nitrate	By calculation from Methods 225 and 245	A
	Soluble Reactive Phosphate	Method No 270 (Blue Book 147, 1992)	A
	Sulphate	Method No 305 (Blue Book 136, 1988)	A
	Ammonia and ammonium ions	Method No 255 (Blue Book 48, 1981)	A
	Chromium (VI)	Method No 3724	A
	Conductivity	Method No 660 by automated conductivity meter	A
(and process waters)	Conductivity	Method No 705 by manual conductivity meter	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Drinking water and ground water	Dry Residues	Method No 315 using gravimetry	A
Drinking, Surface and Ground Waters (cont'd)	Turbidity	Method No 650 by manual turbidimeter (Blue Book 103, 1981), or Method No 660 by automated turbidimeter	A
	Colour	Method No 660 by automated visible spectrometry, or Method No 620, by manual visible spectrometry. (Blue Book 103, 1981)	A
	<u>Ion Chromatography</u>		
	Chlorate Fluoride Bromide Chlorite	Method No 3371	A
	Bromate	Method No 3401	A
	Total organic carbon	Method No 250 by TOC analyser (Blue Book 157, 1995)	A
(and process waters)	Total dissolved solids	Method No 170 by gravimetry (Blue Book 105, 1980)	A
	Gross alpha (relative to AM-241) Gross beta (relative to K-40)	Method No 295 by gas-flow proportional counting	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Drinking, Surface and Ground Waters	pH	Method No 660 by automated pH Meter, or Method No 185 by Manual pH meter (Blue Book 14, 1978)	A
Drinking, Surface and Ground Waters, Process waters, Trade effluent and Treated Sewage	pH	Method No 185 by Manual pH meter (Blue Book 14, 1978)	A
Surface Water, Process Waters, Treated Sewage, and Trade Effluents	Total suspended solids	Method No 310 by gravimetry (Blue Book 105, 1980)	A
Surface Water, Trade Effluent and Treated Sewage Effluent	Chemical Oxygen Demand	Method No 125 by test kit - colorimetry (Blue Book 215, 2007)	A
Process Water (heating & cooling systems) and Trade Effluent	<u>Metals</u> Aluminium Calcium Copper Iron Magnesium Molybdenum Zinc	Method No 3546 using ICP-OES	A
Trade Effluent	<u>Metals</u> Arsenic Barium Boron Cadmium Chromium Lead Manganese Nickel Potassium Sodium Phosphorous Mercury	Method No 3546 using ICP-OES	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Process Water (heating and cooling systems)	Alkalinity Ammonia Chloride Nitrite Soluble Reactive Phosphate Sulphate Total Oxidised Nitrogen Nitrate (by calculation)	Method 4095 using Smartchem analyser	A
Trade Effluent and Treated Sewage Effluent	Ammonia Chloride Nitrite Soluble Reactive Phosphate Sulphate	Method 4095 using Smartchem analyser	A
Treated Sewage Effluent	Total Oxidised Nitrogen	Method 4095 using Smartchem analyser	A
Drinking, Surface and Ground Waters	<u>Metals:</u>	<u>ICP-MS</u>	
	Aluminium Iron Manganese Nickel Copper Zinc Lead	Method 730	A
	Chromium Cadmium Barium	Method 735	A
	Boron Calcium Magnesium Potassium Sodium	Method 740	A
	Arsenic Selenium Antimony	Method 745 by Nexion ICP-MS	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Drinking, Surface and Ground Waters (cont'd)	<u>Metals:</u> (cont'd)	<u>ICP-MS</u>	
	Lithium Beryllium Vanadium Cobalt Molybdenum Tin	Method 750	A
Drinking, Surface and Ground Waters	Strontium Uranium	Method 755	A
	Total Phosphorus	Method 760	A
	Mercury	Method 765	A
	Silver	Method 770	A
Drinking, Surface and Ground Waters	<u>Organochlorines and other pesticides:</u>	<u>GC-ECD</u>	
	Aldrin Dichlobenil Dieldrin Heptachlor Heptachlor epoxide Lindane Propyzamide Tecnazene Triallate Trifluralin	Method No 470 (Blue Book 174, 2000)	A
	Metalddehyde	Method No 700 by GC-MS (Blue Book 226, 2009)	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Drinking, Surface and Ground Waters	<u>Hydrocarbons and Halogenated Hydrocarbons:</u> Benzene 1,2, Dichloroethane Trichloromethane 1,1,1, Trichloroethane Tetrachloromethane Trichloroethene Bromodichloromethane Tetrachloroethene Chlorodibromomethane Tribromomethane	Method No 775 by Headspace GC-MS	A
Drinking, Surface and Ground Waters	Total Chlorthal	Method 3841 by GC-MS	A
Drinking, Surface and Ground Waters	<u>VOCs:</u> Methyl Tertiary Butyl Ether (MTBE) Benzene Toluene Ethylbenzene m/p-Xylene o-Xylene Styrene 3-Ethyltoluene 1,2,4-Trimethylbenzene	Method No 2852 by Headspace GC-MS	A
	<u>PAH'S:</u> Benzo-3,4-fluoranthene Benzo-11,12-fluoranthene Benzo-1,12-perylene Benzo-3,4-pyrene Fluoranthene Indeno-1,2,3-cd-pyrene	<u>HPLC-Fluorescence Detection</u> Method No 480 (Blue Book 165, 1997)	A



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WATERS (cont'd)	<u>Chemical Tests (cont'd)</u> <u>Acid Herbicides</u> 2,4-D 2,4-DB 2,4,5-T Benazolin Bentazone Bromoxynil Clopyralid Dicamba Dichlorprop Fluroxypyr Ioxynil MCPA MCPB Mecoprop (MCP) Pentachlorophenol (PCP) Picloram (Drinking and GW only) Triclopyr	<u>Direct Aqueous Injection</u> <u>LC-MS-MS</u> Method 3545	A
Drinking, Surface and Ground Waters (cont'd)	Fenpropimorph	<u>Direct Aqueous Injection</u> <u>LC-MS-MS - Method 3551</u>	A
	Metaldehyde <u>Acid Herbicides</u> 2,4-D 2,4-DB 2,4,5-T Benazolin Bentazone Bromoxynil Dicamba Dichlorprop Fluroxypyr Ioxynil MCPA MCPB Mecoprop (MCP) Pentachlorophenol (PCP) Triclopyr	<u>Direct Aqueous Injection</u> <u>LC-MS-MS - Method 3809</u> On-line SPE / LC-MS-MS Method 715	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) Drinking, Surface and Ground Waters (cont'd)	<u>Chemical Tests</u> (cont'd) Atrazine Azoxystrobin Boscalid Carbendazim Carbetamide Chlortoluron Cyproconazole Diuron Epoconazole Flusilazole Flutriafol Isoproturon Linuron Mesosulfuron-methyl Metazachlor Oxadixyl Pendimethalin Prometryn Propazine Quinmerac Simazine Tebuconazole Terbutryn Trietazine	<u>LC-MS-MS</u> Method 2587	A
Drinking Water Only	Taste	Method 230 by panel based on MEWAM Standing Committee of Analysts Method "Determination of Taste and Odour in Potable Waters", 2014	A
Drinking and Raw Waters	Odour	Method 230 by panel	A



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<p>WATERS (cont'd)</p> <p>Drinking, Surface and Ground Waters</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Aldrin Chlorpropham Chlorpyrifos Chlorthal dimethyl Diazinon Dichlobenil Dieldrin Ethoprop Fenpropimorph Heptachlor epoxide A Heptachlor epoxide B Heptachlor Lindane Propachlor Propetamphos Propham Propyzamide Tecnazene Triallate Trifluralin</p>	<p>GC-MS-MS Method L008B</p>	<p>A</p>
<p>Surface Water, Treated Sewage Effluent and Trade Effluent (including WTW effluent)</p>	<p>Biochemical Oxygen Demand</p>	<p>Method 720 by DO probe</p>	<p>A</p>



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WATERS (cont'd)	<u>Microbiological Tests</u>	Documented In-House Methods based on procedures in MODW Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)	
Drinking, Surface and Ground Waters, swimming pools and spa water	Analysis for the purpose of the enforcement of The Water Supply (Water Quality) Regulations 2000 (Drinking, Surface and Ground Waters Only)		
	Enumeration of:		
Drinking, Surface and Ground Waters, swimming pools and spa water	Coliforms, presumptive and confirmed	Method No 400 using the Colilert system (MoDW Part 4, 2009)	A
Drinking, Surface and Ground Waters	Coliforms, presumptive and confirmed	Method No 385 by membrane filtration using MLGA	A
Drinking, Surface and Ground Waters, swimming pools and spa water	<i>Escherichia coli</i> , presumptive and confirmed	Method No 400 using the Colilert system	A
Drinking, Surface and Ground Waters	<i>Escherichia coli</i> , presumptive and confirmed	Method No 385 by membrane filtration using MLGA	A
Drinking, Surface and Ground Waters, swimming pools and spa water	<i>Pseudomonas aeruginosa</i> presumptive and confirmed	Method No 410 by membrane filtration (MoDW Part 8, 2010)	A
Drinking water, process water, swimming pool water	<i>Pseudomonas species</i> confirmed	Method 3383 by membrane filtration	A
Drinking water, process water, Surface and Ground Waters, swimming pools and spa water	Total aerobic colony count at 22 °C and at 37 °C	Method No 430 by pour plate, using YEA (MoDW Part 7, 2012)	A



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)		
	Enumeration of: (cont'd)		
Process Waters	Total aerobic colony count at 30°C	Method No 430 by pour plate, using YEA (MoDW Part 7, 2012)	A
Drinking, Surface and Ground Waters	Enterococci, presumptive and confirmed	Method No 390 by membrane filtration (MoDW Part 5, 2012)	A
	Enterococci	Method 780 using the Enterolert System (MoDW Part 5, 2012)	A
	Clostridium perfringens including spores, presumptive and confirmed	Method No 360 by membrane filtration (MoDW Part 6, 2010)	A
Drinking and process waters	Isolation and enumeration of <i>Legionella pneumophila</i> serogroup 1, <i>Legionella pneumophila</i> serogroups 2-14 and Legionella species	Method No 350 based on ISO 11731:1998 and BS ISO 11731-2:2004 by pre-concentration / GVPC	A
	Detection of:		
Drinking, Surface and Ground Waters. Swimming Pool Waters	<i>Cryptosporidium</i> oocysts, confirmed and <i>Giardia</i> cysts, confirmed	Method No 420 using Filta-Max xpress system, Filta-Max system, Genra filtration or membrane filtration (MODW part 14,2010)	A
Endoscopy rinse waters	Total Viable Count @ 30°C	Method No 3530 by membrane filtration	A



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WATERS (cont'd) Drinking, Surface and Ground Waters From: Water Treatment Works Service Reservoirs Consumers' Taps Associated raw waters	Sampling and Analysis for the purpose of enforcement of The Water Supply (Water Quality) Regulations 2000 (SI 2000/3184) <u>Sampling</u> For Chemical and Microbiological testing (including cryptosporidium) <u>On-site Testing</u>	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS)	B
Drinking Water	Free Chlorine Total Chlorine		B
END			