

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



1579

Accredited to
ISO/IEC 17025:2005

South East Water Ltd (trading as South East Water Scientific Services)

Issue No: 032 Issue date: 13 January 2012

26-28 Sturt Road
Frimley Green
Camberley
Surrey
GU16 6HY

Contact: Mr J Bolton
Tel: +44 (0)1634 276143
Fax: +44 (0)1634 276277
E-Mail: jeremy.bolton@southeastwater.co.uk
Website: www.southeastwater.co.uk

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 Potable, Surface and Ground Waters	<u>Chemical Tests</u> Alkalinity Chloride Total Hardness Nitrite TON Silica Free and Total Cyanide Nitrate Soluble Reactive Phosphate Sulphate Ammonia and ammonium ions Conductivity Conductivity Turbidity	Documented In-House Methods based on MEWAM Standing Committee of Analysts Methods (ISBN reference given in parenthesis) <u>Colorimetry using Discrete Analyser Konelab Aqua 60</u> Method No 235 Method No 215 Method No 205 Method No 225 Method No 245 Method No 285 Method No 165 By calculation from Methods 225 and 245 Method No 270 (ISBN 011 752 377 1) Method No 305 based on MEWAM Vol 26 (ISBN 011 751 492 6) Method No 255 based on MEWAM Vol 38 (ISBN 011 751 613 9) Method No 660 by automated conductivity meter Method No 705 by manual conductivity meter Method No 650 by manual turbidimeter (ISBN 011 751 955 3) or Method No 660 by automated turbidimeter



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Potable, Surface and Ground Waters (cont'd)	Colour	Method No 660 by automated visible spectrometry or Method No 620, by manual visible spectrometry. SCA "Colour & Turbidity in Waters" 1981
	Chlorate Fluoride Bromide Bromate	<u>Ion Chromatography</u> Method No 75 Method No 75 Method No 75 Method No 590 (Dionex application Note 171)
	Total organic carbon	Method No 250 by TOC analyser (ISBN 011 752 979-6)
	Total dissolved solids (dry residues)	Method No 170 by gravimetry (ISBN 011 751 957 X)
	Gross alpha Gross beta	Method No 295 by gas-flow proportional counting
Potable, Surface and Ground Waters and trade effluents	pH	Method No 660 by automated pH Meter or Method No 185 by Manual pH meter (ISBN 011 751 428 4)
Potable, Surface and Ground Waters and trade effluents	Total suspended solids	Method No 310 by gravimetry (ISBN 011 751 957 X)
Potable, Surface and Ground Waters, trade effluents and treated sewage effluent	Chemical Oxygen Demand	Method No 125 by test kit - colorimetry (ISBN 011 751 249 4)
Trade effluent	Ammonia and ammonium ions	Method No 255 Colorimetry using Discrete Analyser (Konelab Aqua 60)
Potable, Surface and Ground Waters	<u>Metals:</u> Antimony Arsenic Mercury Selenium	<u>ICP-MS</u> Method No 45



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<p>WATERS (cont'd)</p> <p>Potable, Surface and Ground Waters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Metaldehyde</p> <p>Chlorpyrifos and Metalaxyl</p> <p><u>Hydrocarbons and Halogenated Hydrocarbons:</u> Benzene 1,2, Dichloroethane Trichloromethane 1,1,1, Trichloroethane Tetrachloromethane Trichloroethane Bromodichloromethane Tetrachloroethane Chlorodibromomethane Tribromomethane</p> <p>Atrazine Carbendazim Carbetamide Chlorotoluron Diuron Isoproturon Linuron Prometryn Propazine Trietazine Tebutryn Simazine</p> <p><u>PAH'S:</u> Benzo-3,4-fluoranthene Benzo-11,12-fluoranthene Benzo-1,12-perylene Benzo-1,12-perylene Benzo-3,4-pyrene Fluoranthene</p>	<p>Method No 700 - GC-MS</p> <p>Method No 585 based on MEWAM 60 - GC-MS</p> <p>Method No 505 (ISBN 011 752 004) - Headspace GC-MS</p> <p><u>LC-MS</u> Method No 535 based on agilent application note 5989 0813 EN</p> <p><u>HPLC-Fluorescence Detection</u> Method No 480 (ISBN 011 752 032 2)</p>



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<p>WATERS (cont'd)</p> <p>Potable, Surface and Ground Waters, swimming pools and spa water</p>	<p><u>Microbiological Tests</u></p> <p>Enumeration of:</p> <p>Coliforms, presumptive and confirmed</p> <p><i>Escherichia coli</i>, presumptive and confirmed</p> <p><i>Pseudomonas</i>, presumptive and confirmed</p> <p>Total aerobic colony count at 22 °C and at 37 °C</p>	<p>Documented In-House Methods based on procedures in MODW</p> <p>Method No 400 using the Colilert system or Method No 385 using MLGA</p> <p>Method No 400 using the Colilert system or Method No 385 using MLGA</p> <p>Method No 410 by membrane filtration</p> <p>Method No 430 pour plate, using YEA</p>
<p>Potable, Surface and Ground Waters</p>	<p>Faecal streptococci, presumptive and confirmed</p> <p>Sulphite reducing clostridia, presumptive</p>	<p>Method No 390 by membrane filtration</p> <p>Method No 360 by membrane filtration</p>
<p>Potable, Surface and Ground Waters and process waters</p>	<p><i>Legionella</i> spp, confirmed</p> <p>Detection of:</p> <p><i>Cryptosporidium</i> oocysts, confirmed and <i>Giardia</i> cysts, confirmed</p>	<p>Method No 350 based on ISO 11731:1998 by pre-concentration / GVPC</p> <p>Method No 420 based on SI 1999/1524 by Genra filtration or membrane filtration</p>
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