

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 1361 Accredited to ISO/IEC 17025:2017	<b>South West Water</b>	
	Issue No: 072 Issue date: 16 September 2021	
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Testing performed at the above address only		

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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<b>SECTION 1- DWTS &amp; ISO 17025</b>		
WATERS	<u>Chemical and Physical Tests</u>  Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614].	The testing is in accordance with the Drinking Water Testing Specification (DWTS). Documented In-House Methods based on/incorporating procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials' ISBN reference in parentheses
Raw (Surface Water and Groundwater) Drinking Waters,	Colour	Spectrophotometry Method ref: COLOUR (0117519553, 1981, A3)
Raw (Surface Water and Groundwater) and Drinking Waters	Turbidity	Nephelometry Method ref: TURBIDITY (0117519553, 1981, B2)
Raw (Surface Water and Groundwater) Drinking Waters	pH Alkalinity Conductivity	Method ref: pH COND ALK IN WATERS (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)
Raw (Surface Water and Groundwater) Drinking Waters	UV transmission (at 254nm) Absorbance	Method ref: UV Transmission by spectrophotometer
Raw (Surface Water and Groundwater) and Drinking Waters	Ammonium Chloride Nitrate by calculation Nitrite Total Oxidised Nitrogen Ortho-Phosphate	Automated Colorimetric Analysis Method ref: NUTRIENTS (0117516139, 1981, F) (0117515930, 1981, D) (0117515930, 1981, D) (0117515930, 1981, H) (0117515930, 1981, D) (0117515825, 1980, A) (0117515574, 1980, B)
Surface Water and Drinking Waters	Silicate	Automated Colorimetric Analysis Method ref: NUTRIENTS
Raw (Surface Water and Groundwater) and Drinking Waters	Fluoride	Method ref: FLUORIDE by Ion Selective Electrode (HACH MM340)



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	Fluoride	Electrochemistry Method ref: FLUORIDE (0117516627, 1982)
Raw (Surface Water and Groundwater) and Drinking Waters	Total Organic Carbon Dissolved Organic Carbon	Method ref: TOC L by Thermal Oxidation
Raw (Surface Water and Groundwater) and Drinking Waters	Metals: LOW RANGE :Total and Dissolved unless otherwise stated  Aluminium Antimony Arsenic Boron Barium Beryllium Calcium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Sodium Sulphate Tin Titanium Uranium Vanadium Zinc	Method METALS and CATIONS based on inductively coupled plasma spectrometry 1996 Method B Methods for examination of water and associated materials (0117532444)
Hard and Soft Waters	pH	Method ref: pH COND ALK IN WASTE by electrode





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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	<b>Pesticides by GC-MS</b> including: Chlorothalonil Chlorpyrifos Cyprodinil Diazinon Dichlobenil Dieldrin Diflufenican Epoxyconazole Fenpropimorph Lindane Pendimethalin	Capillary Gas-Chromatography - Mass Spectrometry (0117513733) Method ref: MSINSECT
Drinking Waters	Taste and Odour	In House method ref TASTE AND ODOUR based on SCA "The determination of taste and odour in drinking waters (2014)" using assessed panel
Raw (Surface Water and Groundwater & WTW influent), Treated Waters and Drinking Waters	Geosmin Metaldehyde 2-methylisoborneol (MIB)	Documented in house method based on bluebook 226 The Determination of Metaldehyde in Waters using Chromatography with Mass Spectrometric detection (2009) and book 171 The assessment of taste, odour and related aesthetic problems in drinking waters 1998. Method ref: METALDEHYDE MIB GEOSMIN



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WATERS (cont'd)	<b>Chemical and Physical Tests</b> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	2,4-D 2,4-DB Asulam Bentazone Bromoxynil Clopyralid Dicamba Dichlorprop Diclofenac Fluroxypyr Ibuprofen Ioxynil MCPA MCPB Mecoprop Naproxen Pentachlorophenol (PCP) Picloram Quinmerac Trichlopyr	Method ref: Acid Herbicides by LC-MSMS
Raw (Surface Water and Groundwater) and Drinking Waters	<b>Neutral Herbicides:</b> Range 0-250ng/l Cyromazine Metamitron Propamocarb Carbendazim Simazine Chlorotoluron Diuron Atrazine Isoproturon Linuron Azoxystrobin Propyzamide Boscalid Tebuconazole	Documented in house method Method ref: NHERBMS using Liquid chromatography - mass spectrometry (LC-MS) utilising direct aqueous injection, positive electrospray ionisation (ESI+) and multiple reaction monitoring (MRM)



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	Trichloromethane (Chloroform) 1,2-Dichloroethane* Benzene* Tetrachloromethane* Trichloroethene* Bromodichloromethane* Tetrachloroethene* Dibromochloromethane* Tribromomethane (Bromoform)* Methyl-tert-butylether (MBTE) Methylbenzene (Toluene) Ethylbenzene 1,3-Dimethylbenzene/1,4-Dimethylbenzene (m & p xylene) 1,2-Dimethylbenzene (O-xylene) Ethenylbenzene (Styrene) Naphthalene	Method ref: VOC by headspace GCMS (Shimadzu), * Indicates also analysed on Agilent system
Raw (Surface Water and Groundwater) and Drinking Waters	Gross $\alpha$ relative to $Am^{241}$ Gross $\beta$ relative to $K^{40}$	Method ref: GROSS ALPHA AND BETA based on: BS ISO 9696:2007 BS ISO 9697:2008 SCA(HMSO) (01175909X, 1986)
Drinking Waters and Groundwaters	Radon 222 and Radium 226	Method ref: RADON
Drinking Waters, Surface Waters and Groundwaters	Tritium	Method ref: TRITIUM



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WATERS (cont'd)	<u>Microbiological Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614]	The testing is in accordance with the Drinking Water Testing Specification (DWTS)
Raw (Surface Water and Groundwater) and Drinking Waters	Total Coliforms, presumptive and confirmed - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016)
Raw (Surface Water and Groundwater) and Drinking Waters	E coli, presumptive and confirmed - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016)
Raw (Surface Water and Groundwater) and Drinking Waters	Faecal Streptococci (Enterococci), presumptive and confirmed - membrane filtration	Method ref: E BY MF. MoDW Part 5 (2012)
Raw (Surface Water and Groundwater) and Drinking Waters	Total Coliforms, confirmed - Colilert E coli, confirmed – Colilert	Method ref: TC and EC Colilert. MoDW Part 4 (2016)
Raw (Surface Water and Groundwater) and Drinking Waters	Total Viable Counts - by Pour Plate at 22 °C and 37 °C	Method ref: TVC BY POUR PLATE. MoDW Part 7 (2020)
Raw (Surface Water and Groundwater) and Drinking Waters	<i>Pseudomonas aeruginosa</i> , presumptive and confirmed - membrane filtration	Method ref: P AERUGINOSA BY MF. MoDW Part 8 (2015)
Raw (Surface Water and Groundwater) and Drinking Waters	<i>Clostridium perfringens</i> , presumptive and confirmed - membrane filtration	Method ref: C PERFRINGENS BY MF. MoDW Part 6 (2020)
Raw (Surface Water and Groundwater) and Drinking Waters	Detection and enumeration of Cryptosporidium oocysts	Method ref: Crypto by Filta-max xpress. MoDW Part 14 (2010)
END OF SECTION 1		





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<b>SECTION 2 MCERTS Waters &amp; ISO 17025</b>		
<p>WASTEWATERS to MCERTS</p> <p>Untreated Sewage Treated Sewage Effluent Trade Effluent to Sewer and Controlled Waters</p> <p>Untreated Sewage Effluent, Treated Sewage Effluent, Trade Effluent to Controlled Waters, Trade Effluents to Sewer</p>	<p><u>Chemical Tests</u></p> <p>Nutrients medium range: Chloride Ammonium Nitrite Orthophosphate</p> <p>Nutrients High range: Ammonium as N Chloride</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard – sampling and chemical testing of untreated sewage, sewage effluent and trade effluent</p> <p>Method ref: NUTRIENTS by automated discrete colourmetric analyser</p> <p>Method ref: NUTRIENTS by automated discrete colourmetric analyser</p>
<p>Untreated Saline sewage effluent and Saline Treated sewage effluent</p> <p>Saline Treated Sewage Effluent Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters</p> <p>Saline Treated Sewage Effluent and Settled Untreated Sewage Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters</p> <p>Treated Sewage Effluent, Saline treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters</p>	<p>Nutrients Medium &amp; High range: Ammonium as N</p> <p>BOD</p> <p>COD</p> <p>Total, filtered, and settled COD: Low range (5-80mg/l)</p>	<p>Method ref: NUTRIENTS by automated discrete colourmetric analyser</p> <p>Analysis by dissolved oxygen probe Method ref: BOD</p> <p>Method ref: COD</p> <p>Method ref: COD Merck by Spectrophotometer</p>



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<p>WASTEWATERS to MCERTS (cont'd)</p> <p>Untreated sewage effluent, Saline untreated Sewage Effluent, and Trade Effluent to Sewer and Controlled Waters</p> <p>Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters</p> <p>Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters</p> <p>Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters and Saline Treated Effluents</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Total, filtered, and settled COD: High range (25-1500mg/l)</p> <p>pH</p> <p>TOC</p> <p>Suspended solids</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard – sampling and chemical testing of untreated sewage, sewage effluent and trade effluent</p> <p>Method ref: COD Merck by Spectrophotometer</p> <p>Method ref: pH COND ALK IN WASTE by electrode</p> <p>Method ref: Waste TOC by Cuvette test</p> <p>Method ref: SUSPENDED SOLIDS</p>

END OF SECTION 2



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<b>SECTION 3 – ISO 17025 only methods</b>		
WATERS	<u>Chemical and Physical Tests</u>	Documented In-House Methods based on/incorporating procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials' ISBN reference in parentheses
Drinking Waters, (including Bottled Water) and Recreational Water (man made)	Colour	Spectrophotometry Method ref: COLOUR (0117519553, 1981, A3)
Drinking Waters including Bottled Waters, Recreational Water (man made) and Treated Sewage Effluent	Turbidity	Nephelometry Method ref: TURBIDITY (0117519553, 1981, B2)
Drinking Waters, (including Bottled Water) and Recreational Water (man made)	pH Alkalinity Conductivity	Instrumental Methods Method ref: pH COND ALK IN WATERS (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)
Drinking Waters including Bottled Water	Ammonium Chloride Total Oxidised Nitrogen Nitrate by calculation Nitrite Ortho-Phosphate	Automated Colorimetric Analysis Method ref: NUTRIENTS (0117516139, 1981, F) (0117515930, 1981, D) (0117515930, 1981, H) (0117515825, 1980, A)
Drinking waters and Surface Waters	Silicate	Method Ref: NUTRIENTS (0117515574, 1980, B)
Drinking Waters including Bottled Water & Recreational Waters (man made)	Total Organic Carbon Dissolved Organic Carbon	Method ref: TOC L
Drinking Waters including Bottled water, Recreational Water (man made)	Fluoride	Electrochemistry Method ref: FLUORIDE (0117516627, 1982)



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	
Raw (Surface Water and Groundwater)	COD	Method ref: COD
Raw (Surface Water and Groundwater)	Total, filtered, and settled COD: Low range (5-80mg/l)	Method ref: COD Merck by Spectrophotometer
Land Leachate	Total, filtered, and settled COD: High range (25-1500mg/l)	Method ref: COD Merck by Spectrophotometer
Raw (Surface Water and Groundwater)	BOD	Method ref: BOD by BOD robot
Raw (Surface Water and Groundwater)	Suspended Solids	Method ref: Suspended Solids
Drinking Waters including Bottled Water	Aluminium Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Nickel Phosphorus Potassium Sodium Sulphate Zinc	Method ref: METALS AND CATIONS IN CLEAN WATERS based on inductively coupled plasma spectrometry 1996 Method B Methods for examination of water and associated materials (0117532444)
Drinking waters including Bottled Water	Low level metals: Aluminium Antimony Arsenic Boron Barium Beryllium Calcium Cadmium Cobalt Chromium Copper	Method ref: METALS and CATIONS based on inductively coupled plasma spectrometry 1996 Method B Methods for examination of water and associated materials (0117532444)



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	
Drinking waters including Bottled Water (cont'd)	Low level metals: (cont'd) Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Sodium Sulphate Tin Titanium Uranium Vanadium Zinc	
	<u>Microbiological Tests</u>	Documented In-House Methods based on:
Recreational Waters (man made), Recreational Waters (natural), Bottled Water	Total Coliforms, presumptive and confirmed - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016) and MoREW Part 3 (2016)
Recreational Waters (man made), Recreational Waters (natural), Bottled Water	E. coli, presumptive and confirmed - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016) and MoREW Part 3 (2016)
Bottled Water, Recreational Waters (man made), Recreational Waters (natural)	Faecal Streptococci (Enterococci), presumptive and confirmed - membrane filtration	Method ref: E BY MF. MoDW Part 5 (2012) and MoREW Part 4 (2015)
Bottled Water & Recreational Waters (man made)	<i>Clostridium perfringens</i> , presumptive and confirmed - membrane filtration	Method ref: C PERFRINGENS BY MF. MoDW Part 6 (2020) and MoREW Part 5 (2015)
Bottled Water, Recreational Waters (man made)	<i>Pseudomonas aeruginosa</i> , presumptive and confirmed - membrane filtration	Method ref: P AERUGINOSA BY MF. MoDW Part 8 (2015) and MoREW Part 7 (2015)



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<p>WATERS (cont'd)</p> <p>Bottled Water, Recreational Waters (man made), Recreational Waters (natural), Saline Waters</p>	<p><u>Microbiological Tests (cont'd)</u></p> <p>Total Viable Counts - by Pour Plate at 22 °C and 37 °C</p>	<p>Method ref: TVC BY POUR PLATE. MoDW Part 7 (2020)</p>
<p>SALINE WATERS</p> <p>Saline Water</p> <p>Saline Water</p> <p>Saline Water</p> <p>Saline Water</p> <p>Saline Water</p>	<p><u>Chemical and Physical Tests</u></p> <p>Dissolved Oxygen in mg/l and as % saturation O<sub>2</sub> (by calculation)</p> <p>Suspended Solids</p> <p>pH</p> <p>COD</p> <p>Turbidity</p>	<p>Documented In-House Methods</p> <p>Titrimetry Method ref: DISSOLVED OXYGEN (011751442X, 1979)</p> <p>Gravimetry Method ref: SUSPENDED SOLIDS (011751957X, 1980)</p> <p>Method ref: pH Cond Alk in waters</p> <p>Method ref: COD</p> <p>Method Ref: Turbidity</p>
<p>WASTE WATERS</p> <p>Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)</p> <p>Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)</p>	<p><u>Chemical and Physical Tests</u></p> <p>Biochemical Oxygen Demand</p> <p>Chemical Oxygen Demand</p> <p>Total Organic Carbon</p> <p>pH Alkalinity Conductivity</p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN</p> <p>Analysis by dissolved oxygen probe utilizing a robotic analyser Method ref: BOD (0117522120, 1988)</p> <p>Method ref: COD (0117519154, 1986, B)</p> <p>Cuvette Test Method ref: Waste TOC</p> <p>Method ref: pH COND ALK IN WASTE (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)</p>



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WASTE WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	Suspended Solids and Ash	Gravimetry Method ref: SUSPENDED SOLIDS (011751957X, 1980)
	Alkalinity (Total) at pH 4.5 as mg/l CaCO <sub>3</sub>	By Calculation
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	Hardness Calcium as mg/l Ca	By Calculation
	Hardness Carbonate as mg/l Ca	By Calculation
	Hardness Magnesium as mg/l Ca	By Calculation
	Hardness Non Carbonate as mg/l Ca	By Calculation
	Hardness Calcium as mg/l CaCO <sub>3</sub>	By Calculation
	Hardness Magnesium as mg/l CaCO <sub>3</sub>	By Calculation
	Hardness Total as mg/l Ca	By Calculation
	Hardness Total as mg/l CaCO <sub>3</sub>	By Calculation
	Ammonium (Total) as mg/l NH <sub>4</sub>	By Calculation
	Nitrite (Total) as mg/l N	By Calculation
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	Aluminium	Documented In-House Method Method ref: METALS CATS WASTE SOIL SLUDGE based on Inductively Coupled Plasma - Atomic Emission Spectrometry Method for Trace Element Analysis, Method No 3120B, APHA, 21 <sup>st</sup> Edn, 2005
	Barium	
	Boron	
	Calcium	
	Cadmium	
	Chromium	
	Copper	
	Iron	
	Lead	
	Magnesium	
	Manganese	
	Phosphorus	
	Potassium	
	Silver	
	Sodium	
	Sulphate	
	Tin	
	Zinc	



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WASTE WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN
Treated Sewage	Boron Phosphorus Sulphate	Method ref: METALS and CATIONS based on inductively coupled plasma spectrometry 1996 Method B
Untreated Sewage Effluent, Treated Sewage Effluent, Trade Effluent to Controlled Waters & Trade Effluents to Sewer	Total Oxidised Nitrogen	In house method NUTRIENTS using Automatic Discrete Colourmetric Analyser
Untreated and Treated Industrial and Domestic Waste Waters and LEACHATES (from landfill sites)	Ammoniacal Nitrogen Chloride Nitrite as Nitrogen Total Oxidised Nitrogen Nitrate (by calculation) Phosphate	Automated Colorimetric Analysis Method ref: NUTRIENTS (0117516139, 1981, D) (0117516260, 1981, D) (0117515930, 1981, C) (0117515930, 1981, C) (0117515930, 1981, D) (0117515825, 1980, A)
Treated Sewage and Partially Treated Sewage	Fluoride	Method FLUORIDE by automated Ion Selective Electrode
SLUDGE	Calcium	Inductively Coupled Plasma - Atomic Emission Spectrometry Method ref: METALS CATS WASTE SOIL SLUDGE Based on the determination of metals in solid environmental samples method C Methods for the examination of water and associated materials
SLUDGE	Volatile Matter Dry Matter	Gravimetry - Documented In-House Method ref: DRY AND VOLATILE MATTER





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><b>WATERS</b></p> <p>Treated and Partially Treated Sewage, Untreated Sewage, Recreational Waters (man made), Recreational Waters (natural), Raw (Surface Water and Groundwater), Saline Waters</p> <p>Recreational Waters (man made), Bottled water</p> <p>Limed Sewage Sludge</p> <p>Sewage Sludge, (including Composted, Limed, Digested and Raw)</p> <p>Raw (Surface Water and Groundwater)</p>	<p><u>Microbiological Tests</u></p> <p>Total Coliforms, presumptive - membrane filtration</p> <p>E.coli, presumptive - membrane filtration</p> <p>Faecal Streptococci (Enterococci), presumptive - membrane filtration</p> <p>Total Coliform and E.coli, confirmed – Colilert</p> <p><i>Salmonella</i> spp, presumptive presence/absence</p> <p><i>E coli</i>, Presumptive- membrane filtration</p> <p>Identification and Enumeration of Planktonic Algae (concentration by membrane filtration and microscopic examination)</p>	<p>Documented In-House Methods based on:</p> <p>Method ref: C EC BY MF. MoREW Part 3 (2016)</p> <p>Method ref: E BY MF.MoREW Part 4 (2015)</p> <p>Method ref: TC and EC Colilert. MoDW Part 4 (2016) and MoREW Part 3 (2016)</p> <p>Method ref: SALM P/A IN SLUDGE. MoSS Part 4 (2004)</p> <p>Method ref: EC IN SLUDGE BY MF. MoSS Part 3 (2003)</p> <p>Method ref: ALGAL CELLS IN WATER</p>

END OF SECTION 3