


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 4303</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>Decus Research Limited</p> <p>Issue No: 013 Issue date: 11 May 2018</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>WATER (Drinking (non regulatory), Ground, Surface and Effluent)</p>	<u>Chemistry Testing</u>	Documented In-house procedures based on/incorporating published Procedures in the HMSO Series 'Methods for the Examination of Waters and Associated Materials' referenced by the ISBN number and year
	Ammonia	Method INORG-L12 using photometer
	Chloride	Method INORG-L13 using photometer (Turbidimetric)
	Alkalinity	Method INORG-L09 low level using photometer
	Biochemical oxygen demand	Method INORG-L06.1 using titration
	Chemical oxygen demand	Method INORG-L05 ISBN 011 751 915 4, 1986
	Colour	Method INORG-L04 ISBN 011 751 955 3, 1981,
	Conductivity	Method INORG-L02 ISBN 011 751428 4,
	Fluoride	Method INORG-L15 using ISE
	Dissolved oxygen	Method INORG-L08 ISBN 011 751 630 9, 1981
Nitrite	Method INORG-L14 using photometer	



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WATER (cont'd) (Drinking (non regulatory), Ground, Surface and Effluent)	<u>Chemistry Testing</u> (cont'd) Orthophosphate Total hardness (calculation) Total dissolved solids (calculation): Total Phenol TOC/DOC Total suspended solids Permanganate value pH <u>Metals:</u> Aluminium Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Manganese Magnesium Molybdenum Nickel Phosphate Potassium	Method INORG-L21.1 (low range, Trade) (Calculation based on Ca and Mg analysis using METALS-L) ISBN 011 751 600 7, 1981 Method INORG-L02.2 (calculation) Method INORG-L20 (Colorimetric) ISBN Method INORG-L18 (Colorimetric) ISBN Method INORG-L10 ISBN 011 751 957 X, 1980 Method INORG-L07 ISBN 011 751 960 X Method INORG L01 ISBN 011 751 428 1978 Method METALS L and METALS LP-01 using ICP-OES



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<p>WATER (cont'd)</p> <p>(Drinking (non regulatory), Ground, Surface and Effluent)</p>	<p><u>Chemistry Testing</u> (cont'd)</p> <p><u>Metals:</u> (cont'd)</p> <p>Sodium Sulphate (calculation) Titanium Vanadium Zinc</p>	<p>Method METALS L and METALS LP-01 using ICP-OES</p>
<p>WATERS (Ground water and prepared leachate)</p>	<p>Mecoprop MCPA</p>	<p>Method ORG-L17 using liquid/liquid extraction and GC-MS</p>
<p>Ground water and treated sewage effluent</p>	<p>Polyaromatic hydrocarbons:</p> <p>2-bromo naphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)anthracene Benzo(a)pyrene Benzo(ghi)perylene Dibenzo(ah)anthracene Fluoranthene Fluorene Indeno(123-cd)pyrene Naphthalene Phenanthrene Pyrene</p>	<p>Method ORG - L02 using liquid/liquid extraction and GC-MS</p>



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<p>WATER (cont'd)</p> <p>Ground water and treated sewage effluent</p>	<p><u>Chemistry Testing</u> (cont'd)</p> <p>Phenolic compounds:</p> <p>2-chlorophenol 4-chloro 3 methyl phenol 2,4 dichloro phenol 2,6 dichlorophenol 2,4 dimethylphenol 4-methyl phenol 2 nitrophenol pentachlorophenol phenol phenol-4 nitro 2,3,4,6 tetrachlorophenol 2,4,5 trichlorophenol 2,4,6 trichlorophenol</p>	<p>Method ORG - L02 using liquid/liquid extraction and GC-MS</p>
<p>SOILS</p>	<p><u>Chemistry Testing</u></p> <p><u>Metals:</u></p> <p>Cadmium, Chromium, Copper, Nickel, Lead Zinc</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil</p> <p>Metals- SPO1 & Metals- S using ICP-OES</p>

END