

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>2506</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>United Kingdom Centre for Ecology &amp; Hydrology</b>	
	Issue No: 024 Issue date: 06 August 2020	
	<b>Lancaster Environment Centre</b> Library Avenue Bailrigg Lancaster LA1 4AP	<b>Contact: Mr D Sleep</b> Tel: +44 (0)1524 595800 Fax: +44 (0)1524 61536 E-Mail: <a href="mailto:dsleep@ceh.ac.uk">dsleep@ceh.ac.uk</a> Website: <a href="http://www.ceh.ac.uk/products/facilities/index.html">www.ceh.ac.uk/products/facilities/index.html</a>
<b>Testing performed at the above address only</b>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SAMPLES  Surface waters	<u>Chemical Analysis</u>  Metals: Aluminium (Al) Boron (B) Calcium (Ca) Iron (Fe) Magnesium (Mg) Manganese (Mn) Phosphorus (P) Potassium (K) Silicon (Si) Sodium (Na) Sulphur (S)  Trace Metals: Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd)  Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe)  Lead (Pb) Lithium (Li) Manganese (Mn) Molybdenum (Mo) Nickel (Ni)  Selenium (Se)	Documented In-House Methods:  SOP 3104/SOP 3502 by ICP-OES          SOP 3105/SOP 3504 by ICP-MS



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ENVIRONMENTAL SAMPLES (cont'd)	<u>Chemical Analysis</u> (cont'd)	Documented In-House Methods:
Surface waters (cont'd)	Trace Metals (cont'd): Strontium (Sr)	SOP 3105/SOP 3504 by ICP-MS
	Vanadium (V) Zinc (Zn)	
	pH/Conductivity	SOP3174 by automated combination electrode and conductivity meter
	Ammonium (NH <sub>4</sub> -N)	SOP 3115b and SOP 3515 by Colorimeter
	Phosphate-Phosphorous (PO <sub>4</sub> -P)	SOP 3115a/d/f and SOP 3515 by Colorimeter
	TON	SOP 3115c/e/f and SOP 3515 by Colorimeter
	Mercury	SOP 3133 by Cold Vapour Atomic Fluorescence Spectrometer
Surface waters	Chloride (Cl) Nitrate (NO <sub>3</sub> ) Nitrite(NO <sub>2</sub> ) Sulphate (SO <sub>4</sub> ) Fluoride (F) Bromide (Br)	SOP 3149 by Ion Chromatography and SOP 3149a by Reagent Free Ion Chromatography
Soils	Olsen's Phosphorus, 0-5mg/L in extract	SOP 3175 by SEAL AA3 colorimetric analyser
Biota, Vegetation, Soils and Sediments	% Dry Loss on Ignition	SOP 3101 by gravimetry
Biota, Vegetation, Soils, Sediments and Particulates from Waters	Total Carbon (C) and Nitrogen (N)	SOP 3102 by Elemental Analyser



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ENVIRONMENTAL SAMPLES (cont'd)	<u>Chemical analysis</u> (cont'd)	Documented In House methods
Biota, Vegetation and Soils	$\delta^{15}\text{N}$	SOP 2102/SOP 2501 and SOP 2104/SOP 2502 by Elemental Analyser and Isotope Ratio Mass Spectrometer
	$\delta^{13}\text{C}$	SOP 2101/SOP 2501 and SOP 2103/SOP 2502 by Elemental Analyser and Isotope Ratio Mass Spectrometer
Carbon Dioxide (CO <sub>2</sub> ) in air	$\delta^{13}\text{C}$	SOP 2105/SOP 2503 by Trace Gas Preconcentrator and Isotope Ratio Mass Spectrometer
Aqueous extracts from acid coated air samplers	Ammonium (NH <sub>4</sub> -N)	SOP3176 by SEAL AA3 segmented flow analyser

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