


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p>1247</p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p><b>Envirolab Limited</b></p> <p><b>Issue No: 053    Issue date: 20 March 2025</b></p>	
	<p>Envirolab Limited Hattersley Science and Technology Park Housesteads Off Stockport Road Hattersley SK14 3QU</p>	<p>Contact: Ms D Bescoby Tel: +44 (0)161 368 4921 Fax: +44 (0)161 368 5287 E-Mail: dbescoby@envlab.co.uk Website: www.envlab.co.uk</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	<u>Chemical Tests</u>	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical testing of soil
	Chloride Sulphate	A-T-026 by Colorimetry
	Hot Block Aqua Regia extractable Metals: Arsenic Cadmium Cobalt Copper Chromium Lead Manganese Molybdenum Nickel Selenium Vanadium Zinc	A-T-024 by ICP-OES
	Acid Soluble Sulphate	A-T-028 by ICP-OES
	Elemental Sulphur	A-T-029 by HPLC
	Free Cyanide Total Cyanide	A-T-042 by Colorimetry A-T-042 by Continuous Flow Analyser (Skalar)
	Loss on Ignition	A-T-030 by Gravimetry
	Water-soluble Boron	A-T-027 by ICP-OES



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Complex Cyanide</p> <p>pH</p> <p>Total Organic Carbon (TOC)</p> <p>Polychlorinated Biphenyls: PCB 28 PCB 52 PCB 101 PCB 81 PCB 77 PCB 123 PCB 118 PCB 114 PCB 153 PCB 105 PCB 138 PCB 126 PCB 167 PCB 156 PCB 157 PCB 180 PCB 169 PCB 189</p> <p>Polychlorinated Biphenyls: PCB 28 PCB 52 PCB 101 PCB 118 PCB 153 PCB 138 PCB 180</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical testing of soil (cont'd)</p> <p>By calculation from Free and total Cyanide</p> <p>A-T-031 by meter A-T-031 by manual probe</p> <p>A-T-032 by Combustion</p> <p>A-T-004 using automated preparation and GC-MS</p> <p>A-T-004 using solvent extraction and GC-MS</p>



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SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical testing of soil (cont'd)
	Poly Aromatic Hydrocarbons (PAH): Acenaphthene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene Naphthalene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(123cd)pyrene Dibenzo(ah)anthracene Benzo(ghi)perylene	A-T-019 using automated preparation and GC-MS
	Polynuclear Aromatic Hydrocarbons (Total sum of EPA 16)  Poly Aromatic Hydrocarbons (PAH): Acenaphthene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene Naphthalene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(123cd)pyrene Dibenzo(ah)anthracene Benzo(ghi)perylene	A-T-019 using automated preparation and GC-MS  A-T-019 using solvent extraction and GC-MS
	Polynuclear Aromatic Hydrocarbons (Total sum of EPA 16)	A-T-019 using solvent extraction and GC-MS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Total Petroleum Hydrocarbons &gt;C6-C40:-            &gt;C6-C8            &gt;C6-C10            &gt;C8-C10            &gt;C10-C12            &gt;C10-C25            &gt;C12-C15            &gt;C12-C16            &gt;C15-C16            &gt;C16-C20            &gt;C16-C21            &gt;C20-C21            &gt;C21-C24            &gt;C21-C40            &gt;C24-C25            &gt;C25-C28            &gt;C25-C40            &gt;C28-C30            &gt;C30-C32            &gt;C32-C35            Total &gt;C6-C40</p> <p>Extractable Petroleum Hydrocarbons &gt;C8-C40: -</p> <p>Ali &gt;C10-12</p> <p>Ali &gt;C12-16</p> <p>Ali &gt;C16-21            Aro &gt;C16-21            Ali &gt;C21-35</p> <p>Total EPH &gt;C8-40</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical testing of soil (cont'd)</p> <p>A-T-007 by GC-FID</p> <p>A-T055 by GCxGC-FID</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS ONLY	<p><u>Chemical Tests</u></p> <p>Volatile Organic Compounds:</p> <p>1,1,1-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethene 1,1-dichloropropene 1,2,3-trichloropropane 1,2,4-trimethylbenzene 1,2-dibromoethane 1,2-dichlorobenzene 1,2-dichloroethane 1,2-dichloropropane 1,3,5-trimethylbenzene 1,3-dichloropropane 1,4-dichlorobenzene 2,2-dichloropropane 2-chlorotoluene 4-chlorotoluene 4-isopropyltoluene Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform (Tribromomethane) Bromomethane carbon disulphide Carbon Tetrachloride (Tetrachloromethane) Chlorobenzene Chloroethane Chloroform (Trichloromethane)</p> <p>cis 1,2-dichloroethene (Z) cis 1,3-dichloropropene (Z) Dibromochloromethane Dibromomethane</p>	<p>Documented In-House Methods identified by method number</p> <p>A-T-006 using GCMS with Headspace</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS ONLY (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Volatile Organic Compounds (cont'd):</p> <p>Ethylbenzene Hexachloro-1,3-butadiene Isopropylbenzene m&amp;p-xylene n-butylbenzene n-propylbenzene o-xylene sec-butylbenzene Styrene tert-butylbenzene Tetrachloroethene Toluene trans 1,2-dichloroethene (E) Trans 1,3-dichloropropene (E) Trichloroethene Trichlorofluoromethane (CFC-11) Vinylchloride</p> <p>Volatile Petroleum Hydrocarbons: Speciated aliphatic banding: &gt;C5-C6 &gt;C6-C8 Speciated aromatic banding: &gt;C5-C7 &gt;C7-C8</p> <p>Volatile Petroleum Hydrocarbons: MTBE Benzene Toluene Ethylbenzene m/p-xylenes o-xylene</p>	<p>Documented In-House Methods identified by method number</p> <p>A-T-006 using GCMS with Headspace</p> <p>A-T-022 using GC-MS</p> <p>A-T-022 using GC-MS</p>



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SOILS ONLY (cont'd)	<u>Chemical Tests (cont'd)</u>  Total Petroleum Hydrocarbons >C6-C44:- >C35-C36 >C36-C40  Total >C6-C40  Hot Block Aqua Regia extractable Metals: Barium	Documented In-House Methods identified by method number  A-T-007 by GC-FID  A-T-024 by ICP-OES
INCINERATOR ASH	Aqua Regia extractable Metals: Cadmium Copper Lead Manganese Nickel Zinc	A-T-024 by ICP-OES
SURFACE & GROUNDWATER	<u>Chemical Tests</u>  Poly Aromatic Hydrocarbons (PAH): Acenaphthene Acenaphthylene Anthracene Fluorene Phenanthrene Fluoranthene Naphthalene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(ghi)perylene Dibenzo(ah)anthracene Indeno(123-cd)pyrene	Documented In-House Methods identified by method number  A-T-019 using GC-MS



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SURFACE & GROUNDWATER (cont'd)	<u>Chemical Tests (cont'd)</u>  Volatile Petroleum Hydrocarbons: Speciated aliphatic banding: >C5-C6 >C6-C8 Speciated aromatic banding: >C5-C7 >C7-C8 >C8-C9 >C9-C10  Volatile Petroleum Hydrocarbons: MTBE Benzene Toluene Ethylbenzene m/p-xylenes o-xylene	Documented In-House Methods identified by method number  A-T-022 using GC-MS
SURFACE, GROUNDWATER & INDUSTRIAL EFFLUENT	<u>Chemical Tests</u>  Volatile Organic Compounds:  1,1,1-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethene 1,1-dichloropropene 1,2,3-trichlorobenzene 1,2,3-trichloropropane 1,2,4-trichlorobenzene 1,2,4-trimethylbenzene 1,2-dibromo-3-chloropropane 1,2-dibromoethane 1,2-dichlorobenzene 1,2-dichloroethane 1,2-dichloropropane 1,3,5-trimethylbenzene 1,3-dichlorobenzene 1,3-dichloropropane 1,4-dichlorobenzene 2,2-dichloropropane 2-chlorotoluene 4-chlorotoluene	Documented In-House Methods identified by method number A-T-006 using GCMS with Headspace





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<p>SURFACE, GROUNDWATER &amp; INDUSTRIAL EFFLUENT (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Volatile Organic Compounds: (cont'd)</p> <p>4-isopropyltoluene Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform (Tribromomethane) Bromomethane carbon disulfide Carbon Tetrachloride (Tetrachloromethane) Chlorobenzene Chloroethane Chloroform (Trichloromethane)</p> <p>cis 1,2-dichloroethene (Z) cis 1,3-dichloropropene (Z) Dibromochloromethane Dibromomethane</p> <p>Ethylbenzene Hexachloro-1,3-butadiene Isopropylbenzene m&amp;p-xylene n-butylbenzene n-propylbenzene o-xylene sec-butylbenzene Styrene tert-butylbenzene Tetrachloroethene Toluene trans 1,2-dichloroethene (E) Trans 1,3-dichloropropene (E) Trichloroethene Trichlorofluoromethane (CFC-11) Vinylchloride</p>	<p>Documented In-House Methods identified by method number</p> <p>A-T-006 using GCMS with Headspace (cont'd)</p>



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GROUNDWATER, SURFACE WATER, TRADE EFFLUENTS	<p><u>Chemical Tests (cont'd)</u></p> <p>Total Petroleum Hydrocarbons &gt;C6-C40:-            &gt;C6-C8            &gt;C6-C10            &gt;C8-C10            &gt;C10-C12            &gt;C10-C25            &gt;C12-C15            &gt;C12-C16            &gt;C15-C16            &gt;C16-C20            &gt;C16-C21            &gt;C20-C21            &gt;C21-C24            &gt;C21-C40            &gt;C24-C25            &gt;C25-C28            &gt;C25-C40            &gt;C28-C30            &gt;C30-C32            &gt;C32-C35            &gt;C35-C36            &gt;C36-C40</p> <p>Total &gt;C6-C40</p> <p>Extractable Petroleum Hydrocarbons &gt;C8-C40:-            Ali &gt;C8-C10            Aro &gt;C8-C10            Ali &gt;C10-12            Aro &gt;C10-12            Ali &gt;C12-16            Aro &gt;C12-16            Ali &gt;C16-21            Aro &gt;C16-21            Ali &gt;C21-35            Aro &gt;C21-35</p> <p>Total Aliphatic &gt;C8-C40            Total Aromatic &gt;C8-C40            Total EPH &gt;C8-40</p>	<p>Documented In-House Methods identified by method number</p> <p>A-T-007 by GC-FID</p> <p>A-T-055 by GCxGC-FID</p>





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SURFACE, GROUND and TRADE EFFLUENT WATERS	<u>Chemical Tests</u> (cont'd)  Nitrate	Documented In-House Methods identified by method number  A-T-026 by Colorimetry and discrete analyser
SURFACE & GROUND WATERS, TRADE EFFLUENTS	Fluoride Chloride Nitrite Bromide Nitrate Phosphate Sulphate	A-T-060 by Ion Chromatography
GROUNDWATER, SURFACE WATER and TRADE EFFLUENTS	Poly Aromatic Hydrocarbons (PAH): Acenaphthene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene Naphthalene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(123cd)pyrene Dibenzo(ah)anthracene Benzo(ghi)perylene	A-T-019 using GC-MS
GROUNDWATER, SURFACE WATER, TRADE EFFLUENTS	Free Cyanide Total Cyanide Complex Cyanide	A-T-042 by Continuous Flow Analyser (Skalar) By calculation from Free and total Cyanide
GROUNDWATER, SURFACE WATER and TRADE EFFLUENTS	pH  Chemical Oxygen Demand (COD) (Settled and Total)	A-T-031 by meter and manual probe  A-T-034 by Colorimetry



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GROUNDWATER, SURFACE WATER and TRADE EFFLUENTS (cont'd)	<u>Chemical Tests (cont'd)</u>  Suspended Solids Ammonical Nitrogen Conductivity Hexavalent Chromium  Alkalinity  Dissolved metals: Calcium Magnesium Potassium Sodium  Total Hardness (by calculation)	Documented In-House Methods identified by method number  A-T-036 by Gravimetry A-T-033 by Colorimetry A-T-037 by Meter A-T-040 by Colorimetry and discrete analyser A-T-038 by Colorimetry and discrete analyser A-T-049 by ICP-OES  A-T-049
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	<u>Health and Hygiene</u>  Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021  Documented In-House Method AT-045 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248
ASBESTOS IN SOILS – The Identification of Asbestos fibres in bulk samples of Soil, <i>specifically: Soil</i>	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method AT-045 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248
END		