

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>1247</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Envirolab</h3> <p>Issue No: 043    Issue date: 26 May 2021</p>	
	<p>Sandpits Business Park Mottram Road Hyde SK14 3AR</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>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
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
	Water soluble Boron	A-T-027 by ICP
	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





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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: -            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            Ali &gt;C35-40            Aro &gt;C35-40            Total Aliphatic &gt;C8-C40            Total Aromatic &gt;C8-C40            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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SOILS ONLY	<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-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) Chloromethane cis 1,2-dichloroethene (Z) cis 1,3-dichloropropene (Z) Dibromochloromethane Dibromomethane	Documented In-House Methods identified by method number  A-T-006 using GCMS with Headspace



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SOILS ONLY (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Volatile Organic Compounds (cont'd):            Dichlorodifluoromethane (CFC-12)            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            &gt;C8-C10            Speciated aromatic banding:            &gt;C5-C7            &gt;C7-C8            &gt;C8-C9            &gt;C9-C10</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)	<p><u>Chemical Tests (cont'd)</u></p> <p>Speciated Petroleum hydrocarbons: Speciated aliphatic banding: &gt;C10-C12 &gt;C12-C16 &gt;C16-C21 &gt;C21-C35 Speciated aromatic banding: &gt;C10-C12 &gt;C12-C16 &gt;C16-C21 &gt;C21-C35</p> <p>Total Petroleum Hydrocarbons &gt;C6-C44:- &gt;C35-C36 &gt;C36-C40</p> <p>Total &gt;C6-C40</p>	<p>Documented In-House Methods identified by method number</p> <p>A-T-023 using GC-FID</p> <p>A-T-007 by GC-FID</p>
INCINERATOR ASH	<p>Aqua Regia extractable Metals: Cadmium Copper Lead Manganese Nickel Zinc</p>	<p>A-T-024 by ICP-OES</p>



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SURFACE & GROUNDWATER	<p><u>Chemical Tests</u></p> <p>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</p> <p>Speciated Petroleum hydrocarbons:            Speciated aliphatic banding:            &gt;C10-C12            &gt;C12-C16            &gt;C16-C21            &gt;C21-C35            Speciated aromatic banding:            &gt;C10-C12            &gt;C12-C16            &gt;C16-C21            &gt;C21-C35</p>	<p>Documented In-House Methods identified by method number</p> <p>A-T-019 using GC-MS</p> <p>A-T-023 using GC-FID</p>



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SURFACE & GROUNDWATER (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Volatile Petroleum Hydrocarbons: Speciated aliphatic banding: &gt;C5-C6 &gt;C6-C8 &gt;C8-C10 Speciated aromatic banding: &gt;C5-C7 &gt;C7-C8 &gt;C8-C9 &gt;C9-C10</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-022 using GC-MS</p>
SURFACE, GROUNDWATER & INDUSTRIAL EFFLUENT	<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-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</p>	<p>Documented In-House Methods identified by method number</p> <p>A-T-006 using GCMS with Headspace</p>





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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) Chloromethane cis 1,2-dichloroethene (Z) cis 1,3-dichloropropene (Z) Dibromochloromethane Dibromomethane Dichlorodifluoromethane (CFC-12) 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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<p>GROUNDWATER, SURFACE WATER, TRADE EFFLUENTS &amp; PREPARED LEACHATES</p>	<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            Ali &gt;C35-40            Aro &gt;C35-40            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-T055 by GCxGC-FID</p>





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SURFACE, GROUND and TRADE EFFLUENT WATERS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
	Nitrate	A-T-026 by Colorimetry and discrete analyser
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
	Free Cyanide Total Cyanide	A-T-042 by Colorimetry
	Complex Cyanide	By calculation from Free and total Cyanide
GROUNDWATER, SURFACE WATER, TRADE EFFLUENTS & PREPARED LEACHATES	Free Cyanide Total Cyanide	A-T-042 by Continuous Flow Analyser (Skalar)
	pH	A-T-031 by manual probe
GROUNDWATER, SURFACE WATER and TRADE EFFLUENTS	pH	A-T-031 by meter
	Chemical Oxygen Demand (COD) Settled and Total	A-T-034 by Colorimetry
	Suspended Solids	A-T-036 by Gravimetry



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GROUNDWATER, SURFACE WATER and TRADE EFFLUENTS (cont'd)	<u>Chemical Tests (cont'd)</u>  Ammonical Nitrogen  Conductivity  Total Hardness (by calculation)  Hexavalent Chromium  Alkalinity  Dissolved metals: Calcium Magnesium Potassium Sodium  Health and Hygiene	Documented In-House Methods identified by method number  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  Health and Safety Executive Asbestos: The analysts guide for sampling, analysis and clearance procedures (HSG 248)
ASBESTOS IN SOILS  (Fibre Screening and Identification of asbestos)	Asbestos Fibre Screening and Identification of asbestos: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method  Method ref AT-045 using polarised light microscopy
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248: February 2005 by Documented In-House Procedure AT-045 using stereo-microscopy, polarised light microscopy and dispersion staining
END		