Schedule of Accreditation

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Accredited to ISO/IEC 17025:2017

Envirolab Limited

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	Chemical Tests	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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)
	Complex Cyanide	By calculation from Free and total Cyanide
	pH	A-T-031 by meter A-T-031 by manual probe
	Total Organic Carbon (TOC)	A-T-032 by Combustion
	Polychlorinated Biphenyls: PCB 28 PCB 52 PCB 101 PCB 118 PCB 153 PCB 138 PCB 180	A-T-004 using solvent extraction and GC-MS
	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 solvent extraction and GC-MS
	Polynuclear Aromatic Hydrocarbons (Total sum of EPA 16)	A-T-019 using solvent extraction and GC-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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)
	Total Petroleum Hydrocarbons >C6-C40:- >C6-C8 >C6-C10 >C8-C10 >C10-C12 >C10-C25 >C12-C15 >C12-C16 >C15-C16 >C16-C20 >C16-C21 >C20-C21 >C21-C24 >C21-C40 >C24-C25 >C25-C28 >C25-C40 >C28-C30 >C30-C32 >C32-C35 Total >C6-C40	A-T-007 by GC-FID
	Extractable Petroleum Hydrocarbons >C8-C40: - Ali >C10-12 Ali >C12-16 Ali >C16-21 Aro >C16-21 Ali >C21-35 Total EPH >C8-40	A-T055 by GCxGC-FID

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS ONLY	Chemical Tests 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) 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

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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS ONLY (cont'd)	<u>Chemical Tests (cont'd)</u>	Documented In-House Methods identified by method number
	Total Petroleum Hydrocarbons >C6-C44:- >C35-C36 >C36-C40 Total >C6-C40	A-T-007 by GC-FID
	Hot Block Aqua Regia extractable Metals: Barium	A-T-024 by ICP-OES
SOILS & TROMMEL FINES	Loss of Ignition at 440°C as per HMRC LFT1	A-T-044 & A-T-030 by Gravimetry
INCINERATOR ASH	Aqua Regia extractable Metals: Cadmium Copper Lead Manganese Nickel Zinc	A-T-024 by ICP-OES
SURFACE & GROUNDWATER	<u>Chemical Tests</u>	Documented In-House Methods identified by method number
	Volatile Petroleum Hydrocarbons: Speciated aliphatic banding: >C5-C6 >C6-C8 Speciated aromatic banding: >C5-C7 >C7-C8 >C8-C9 >C9-C10	A-T-022 using GC-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SURFACE & GROUNDWATER	<u>Chemical Tests</u> Volatile Petroleum Hydrocarbons: MTBE Benzene Toluene Ethylbenzene m/p-xylenes o-xylene	Documented In-House Methods identified by method number
SURFACE, GROUNDWATER & INDUSTRIAL EFFLUENT	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	A-T-006 using GCMS with Headspace

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SURFACE, GROUNDWATER & INDUSTRIAL EFFLUENT (cont'd)	Chemical Tests (cont'd) Volatile Organic Compounds: (cont'd) 4-isopropyltoluene Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform (Tribromomethane) Bromomethane carbon disulfide Carbon Tetrachloride (Tetrachloromethane) Chlorobenzene Chloroethane Chloroform (Trichloromethane) cis 1,2-dichloroethene (Z) cis 1,3-dichloropropene (Z) Dibromochloromethane Dibromomethane Ethylbenzene Hexachloro-1,3-butadiene Isopropylbenzene m&p-xylene n-butylbenezene n-propylbenzene o-xylene sec-butylbenzene Styrene tert-butylbenzene Tetrachloroethene Toluene trans 1,2-dichloroethene (E) Trans 1,3-dichloropropene (E) Trichloroethene Trichlorofluromethane (CFC-11) Vinylchloride	Documented In-House Methods identified by method number A-T-006 using GCMS with Headspace (cont'd)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
GROUNDWATER, SURFACE WATER, TRADE EFFLUENTS	<u>Chemical Tests (cont'd)</u> Total Petroleum Hydrocarbons >C6-C40:- >C6-C8 >C6-C10 >C8-C10 >C10-C12 >C10-C25 >C12-C15 >C12-C16 >C15-C16 >C16-C20 >C16-C21 >C20-C21 >C21-C24 >C21-C40 >C24-C25 >C25-C28 >C25-C40 >C28-C30 >C30-C32 >C32-C35 >C35-C36 >C36-C40 Total >C6-C40 Extractable Petroleum Hydrocarbons >C8-C40:- Ali >C8-C10 Aro >C8-C10 Ali >C10-12 Aro >C10-12 Ali >C12-16 Aro >C12-16 Ali >C16-21 Aro >C16-21 Ali >C21-35 Aro >C21-35 Total Aliphatic >C8-C40 Total Aromatic >C8-C40 Total EPH >C8-40	Documented In-House Methods identified by method number A-T-007 by GC-FID A-T-055 by GCxGC-FID

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SURFACE, GROUNDWATER & INDUSTRIAL EFFLUENT (cont'd)	<u>Chemical Tests (cont'd)</u>	Documented In-House Methods identified by method number
	Polychlorinated Biphenyls: PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	A-T-004 using GC-MS
SURFACE, GROUND and TRADE EFFLUENT WATERS	<u>Chemical Tests</u>	Documented In-House Methods identified by method number
	Dissolved Organic Carbon (DOC)	A-T-032 by Combustion
	Dissolved Metals: Antimony Arsenic Barium Berylium Boron Cadmium Cobalt Copper Chromium Iron Lead Manganese Mercury Molybdenum Nickel Selenium Thallium Vanadium Zinc	A-T-025 by ICP-MS
	Total dissolved solids	A-T-035 by Gravimetry
	Fluoride Chloride Nitrite Phosphate Sulphate	A-T-026 by Colorimetry and discrete analyser

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SURFACE, GROUND and TRADE EFFLUENT WATERS	Chemical Tests (cont'd)	Documented In-House Methods identified by method number
	Nitrate	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): Naphthalene Acenaphthene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene 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 or GC-MS with HES
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	A-T-031 by meter and manual probe
	Chemical Oxygen Demand (COD) (Settled and Total)	A-T-034 by Colorimetry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
GROUNDWATER, SURFACE WATER and TRADE EFFLUENTS (cont'd)	<u>Chemical Tests (cont'd)</u>	Documented In-House Methods identified by method number
	Suspended Solids	A-T-036 by Gravimetry
	Ammonical Nitrogen	A-T-033 by Colorimetry
	Conductivity	A-T-037 by Meter
	Hexavalent Chromium	A-T-040 by Colorimetry and discrete analyser
	Alkalinity	A-T-038 by Colorimetry and discrete analyser
	Dissolved metals: Calcium Magnesium Potassium Sodium	A-T-049 by ICP-OES
	Total Hardness (by calculation)	A-T-049
	<u>Health and Hygiene</u>	Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	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
ASBESTOS IN SOILS – The Identification of Asbestos fibres in bulk samples of Soil, *specifically*: *Soil*	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		