

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 4150 Accredited to ISO/IEC 17025:2017	ACS Environmental Testing Ltd Issue No: 038 Issue date: 17 December 2024	
	Unit 14B Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE	Contact: Mrs C Heywood Tel: +44 (0)1202 628680 Fax: +44 (0)1202 628642 E-Mail: CelenaHeywood@acstesting.co.uk
Testing performed by the Organisation at the locations specified		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code	
Address Unit 14B Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE	Local contact Mrs C Heywood Tel: +44(0)1202 628680 Email: CelenaHeywood@acstesting.co.uk	Testing: Inorganic Chemistry Organic Chemistry Microbiology	A
Address Unit D11 Admiralty Park Station Road Holton Heath Poole Dorset BH16 6HX	Local contact Mrs C Heywood Tel: +44(0)1202 628680 Email: CelenaHeywood@acstesting.co.uk	Testing: Sample Preparation	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL and GRANULAR WASTE	<u>Preparation for subsequent analysis by an ISO/IEC 17025 accredited laboratory</u>	Documented In-House Methods	
	WAC Leachate Preparation (2:1, 8:1 and 10:1)	In-house procedures LP/ACSE/101 and LP/ACSE/102 based on BS EN 12457-3:2002	B
	<u>Chemical Tests</u>		
	pH value	In-house method MT/ACSE/301 based on BS 1377:3:1990 by pH meter	A
	BTEX: Benzene Ethylbenzene Toluene m/p-Xylene o-Xylene Total BTEX (sum of the 6 above)	In-house method MT/ACSE/101 by Headspace GC-FID using Ultrasonic Bath Extraction	A
	Loss on Ignition	In-house method MT/ACSE/302 based on BS 1377:3:1990 by Gravimetry	B
	Total Organic Carbon (TOC)	In-house method MT/ACSE/102 by NDIR carbon analyser	A
SOIL	Phenol Index	In-house method MT/ACSE/109 by Continuous Flow Analyser	A
SOIL	Total Cyanide Free Cyanide	In-house method MT/ACSE/206 by Continuous Flow Analyser	A
	Complex Cyanide (by Calculation)		



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SOIL and GRANULAR WASTE (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	Total Extractable Metals: Arsenic Cadmium Chromium Copper Lead Nickel Selenium Zinc	In-house method MT/ACSE/201 by ICP-OES	A
	Total Petroleum Hydrocarbons C ₁₀ -C ₄₀	In-house method MT/ACSE/105 by GC-FID	A
	Mercury	In-house method MT/ACSE/202 by cold vapour AAS	A
	Polynuclear Aromatic Hydrocarbons (PAH's): - Naphthalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Benzo(a)anthracene - Chrysene - Benzo(b)fluoranthene - Benzo(k)fluoranthene - Benzo(a)pyrene - Indeno(1,2,3-c,d)pyrene - Dibenz(a,h)anthracene - Benzo(g,h,i)perylene Total PAH's (SUM of 16 Above)	In-house method MT/ACSE/108 by GC-MS	A



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SOIL and GRANULAR WASTE (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	PCB Congeners:	In-house method MT/ACSE/110 by GC-MS	A
	PCB 28		
	PCB 52		
	PCB 101		
	PCB 118		
	PCB 138		
	PCB 153		
	PCB 180		
	Total PCBs (sum of the above)		
AGGREGATES	Chemical Tests (Cont'd)	Documented In-House Methods	
	Water-Soluble Sulphates	BS EN 1744-1:2009 + A1:2012 Tests for the Chemical Properties of Aggregates Clause 10.1	A
	Total Sulphur	BS EN 1744-1:2009 + A1:2012 Tests for the Chemical Properties of Aggregates Clause 11.1	A
	Acid Soluble Sulphates	BS EN 1744-1:2009 + A1:2012 Tests for Chemical Properties of Aggregates Clause 12	A
	Acid Soluble Sulphides	BS EN 1744-1:2009 + A1 2012 Tests for Chemical Properties of Aggregates Clause 13	A



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SOIL	Chemical Tests	Documented In-House Methods to Meet the Requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of soil	
	Total Extractable Metals: Arsenic Cadmium Chromium Copper Lead Nickel Zinc	In-house method MT/ACSE/201 by ICP-OES	A
	Total Petroleum Hydrocarbons C10-C40	In-house method MT/ACSE/105 by GC-FID	A
	Mercury	In-house method MT/ACSE/202 by Cold vapour AAS	A
	pH	In-house method MT/ACSE/308 by pH Robot	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL	Chemical Tests Metals: Arsenic Barium Beryllium Cadmium Cobalt Chromium Copper Iron Mercury Molybdenum Nickel Lead Selenium Tin Thallium Vanadium Zinc	Documented In-House Methods to Meet the Requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soils In-house method MT/ACSE/210 ICPMS	A



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SOIL (cont'd)	Chemical Tests (cont'd) Polynuclear Aromatic Hydrocarbons (PAH's): Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-c,d)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene Total PAH's (Sum of 16 above)	Documented In-House Methods to Meet the Requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of soil (cont'd) In-house method MT/ACSE/108 by GC-MS	A



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SURFACE AND GROUND WATERS and LEACHATES	<u>Chemical Tests</u>	Documented In-House Methods	
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Ammonium Nitrogen	In-house method MT/ACSE/203 by spectrophotometry	A
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Anions: chloride fluoride nitrate phosphate sulphate nitrite	In-house method MT/ACSE/204 by Ion Chromatography using Dionex and Metrohm IC Systems Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A
Laboratory Prepared Leachates	Anions: bromide	In-house method MT/ACSE/204 by Ion Chromatography using Dionex and Metrohm IC Systems Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Electrical conductivity	In-house method MT/ACSE/303 by Conductivity Meter Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A
Ground Waters, Surface Waters and Laboratory Prepared Leachates	pH value	In-house method MT/ACSE/301 by pH meter MT/ACSE/308 by pH Robot Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A



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SURFACE AND GROUND WATERS and LEACHATES (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Metals: Antimony Arsenic Barium Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Zinc	In-house method MT/ACSE/205 by ICP-OES Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Total Dissolved Solids	Test Procedure MT/ACSE/304 Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A
Laboratory Prepared Leachates, Ground Waters, Borehole Waters	Mercury	In-house method MT/ACSE/202 by cold vapour AAS Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Chemical Oxygen Demand	In-house method MT/ACSE/307 by spectrophotometry	A
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Total organic carbon (TOC) and Dissolved Organic Carbon (DOC)	In-house method MT/ACSE/103 by NDIR carbon analyser Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A



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SURFACE AND GROUND WATERS and LEACHATES (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Total Suspended Solids	In-house method MT/ACSE/305 by gravimetry	A
Ground Waters, Surface Waters, and Laboratory Prepared Leachates	Phenol Index	In-house method MT/ACSE/109 by Continuous Flow Analyser Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, WAC Leachate Preparation based on BS EN 12457	A
Ground Waters, Surface Waters, and Laboratory Prepared Leachates	Total Cyanide Free Cyanide Complex Cyanide (by Calculation)	In-house method MT/ACSE/206 by Continuous Flow Analyser	A
Surface Water	Metals: Aluminium Arsenic Barium Cadmium Cobalt Chromium Copper Iron Mercury Molybdenum Nickel Lead Antimony Selenium Tellurium Titanium Thallium Uranium Vanadium Zinc	In-house method MT/ACSE/208 ICPMS	A



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<p>SURFACE AND GROUND WATERS and LEACHATES (cont'd)</p> <p>Ground Water</p>	<p>Chemical Tests (cont'd)</p> <p>Metals: Aluminium Arsenic Barium Beryllium Cadmium Cobalt Chromium Copper Iron Mercury Lithium Magnesium Molybdenum Nickel Lead Sulphur Antimony Selenium Tellurium Titanium Thallium Uranium Vanadium Zinc</p>	<p>Documented In-House Methods</p> <p>In-house method MT/ACSE/208 ICPMS</p>	<p align="center">A</p>



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<p>SURFACE AND GROUND WATERS and LEACHATES (cont'd)</p> <p>Laboratory Prepared Leachates</p>	<p>Chemical Tests (Cont'd)</p> <p>Metals: Arsenic Barium Beryllium Cadmium Cobalt Chromium Copper Iron Mercury Lithium Magnesium Manganese Molybdenum Nickel Lead Sulphur Antimony Selenium Tellurium Titanium Thallium Uranium Vanadium Zinc</p>	<p>Documented In-house Methods</p> <p>Including LP/ACSE/101 & LP/ACSE/102 2:1, 8:1, 10:1 WAC Leachate Preparation based on BS EN 12457 In-house Method MT/ACSE/208 by ICP-MS</p>	<p align="center">A</p>
<p align="center">END</p>			