


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|---|---|--|
|  <p>UKAS TESTING 4150</p> <p>Accredited to ISO/IEC 17025:2017</p> | <h3>ACS Environmental Testing Ltd</h3> <p>Issue No: 027 Issue date: 02 August 2021</p> | |
| | <p>Unit 14B Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE</p> | <p>Contact: Mrs C Heywood Tel: +44 (0)1202 628680 Fax: +44 (0)1202 628642 E-Mail: CelenaHeywood@acstesting.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 |
|---------------------------|--|--|
| SOIL and GRANULAR WASTE | <p><u>Preparation for subsequent analysis by an ISO/IEC 17025 accredited laboratory</u></p> <p>WAC Leachate Preparation (2:1 and 8:1)</p> <p><u>Chemical Tests</u></p> <p>pH value</p> <p>BTEX: Benzene Ethylbenzene Toluene m/p-Xylene o-Xylene Total BTEX (sum of the 6 above)</p> <p>Loss on Ignition</p> <p>Total Organic Carbon (TOC)</p> | <p>Documented In-House Methods</p> <p>In-house procedures LP/ACSE/101 and LP/ACSE/102 based on BS EN 12457-3:2002</p> <p>In-house method MT/ACSE/301 based on BS 1377:3:1990 by pH meter</p> <p>In-house method MT/ACSE/101 by Headspace GC-FID using Ultrasonic Bath Extraction</p> <p>In-house method MT/ACSE/302 based on BS 1377:3:1990 by Gravimetry</p> <p>In-house method MT/ACSE/102 by NDIR carbon analyser</p> |



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| SOIL | <p><u>Chemical Tests</u></p> <p>Total Extractable Metals: Arsenic Cadmium Chromium Copper Lead Nickel Selenium Zinc</p> <p>Total Petroleum Hydrocarbons C₁₀-C₄₀</p> <p>Mercury</p> <p>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)</p> | <p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical testing of soil</p> <p>In-house method MT/ACSE/201 by ICP-OES</p> <p>In-house method MT/ACSE/105 by GC-FID</p> <p>In-house method MT/ACSE/202 by cold vapour AAS</p> <p>In-house method MT/ACSE/108 by GC-MS</p> |



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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 |
| 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 |
| Laboratory Prepared Leachates | Anions: bromide | In-house method MT/ACSE/204 by Ion Chromatography using Dionex and Metrohm IC Systems |
| Ground Waters, Surface Waters and Laboratory Prepared Leachates | Electrical conductivity | In-house method MT/ACSE/303 by Conductivity Meter |
| Ground Waters, Surface Waters and Laboratory Prepared Leachates | pH value | In-house method MT/ACSE/301 by pH meter |
| 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 |
| Ground Waters, Surface Waters and Laboratory Prepared Leachates | Total Dissolved Solids | Test Procedure MT/ACSE/304 |
| Laboratory Prepared Leachates, Ground Waters, Borehole Waters | Mercury | In-house method MT/ACSE/202 by cold vapour AAS |
| Ground Waters, Surface Waters and Laboratory Prepared Leachates | Total Suspended Solids | In-house method MT/ACSE/305 by gravimetry |
| Ground Waters, Surface Waters and Laboratory Prepared Leachates | Biochemical Oxygen Demand | In-house method MT/ACSE/306 by DO meter |



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| SURFACE AND GROUND WATERS and LEACHATES (cont'd) | <u>Chemical Tests</u> (cont'd) | Documented In-House Methods |
| Ground Waters, Surface Waters and Laboratory Prepared Leachates | Chemical Oxygen Demand | In-house method MT/ACSE/307 by spectrophotometry |
| 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 |
| Ground Waters, Surface Waters and Laboratory Prepared Leachates | Phenols: Phenol m/p-Cresol 2,3 Dimethylphenol 2,3,5 Trimethylphenol Total Phenols (sum of the 5 above) | In-house method MT/ACSE/107 by HPLC, ECD |
| Laboratory Prepared Leachates, Ground Waters | Phenols: Phenol m/p-Cresol 2,3 Dimethylphenol 2,3,5 Trimethylphenol Total Phenols (sum of the 5 above) | Extraction by in-house method LP/ACSE/103 followed by in-house test method MT/ACSE/107 by HPLC, ECD |
| END | | |