


# Schedule of Accreditation

## United Kingdom Accreditation Service

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

 <b>2531</b> Accredited to <b>ISO/IEC 17025:2005</b>	<b>Chemtech Environmental Limited</b> <b>Issue No: 037</b> <b>Issue date: 03 May 2018</b>	
	<b>Unit 6</b> <b>Parkhead</b> <b>Greencroft Industrial Park</b> <b>Stanley</b> <b>County Durham</b> <b>DH9 7YB</b>	<b>Contact: Mr J Burbeck</b> <b>Tel: +44 (0)1207 528578</b> <b>Fax: +44 (0)1207 581582</b> <b>E-Mail: jamieburbeck@chemtech-env.co.uk</b> <b>Website: www.chemtech-env.co.uk</b>
<b>Testing performed at the above address only</b>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	<u>Chemical Tests</u>  Loss on ignition at 440°C  pH value  Acid soluble sulphate  Water soluble sulphate (2:1)  Anions (chloride, nitrate sulphate,)  Metals:  Metals Mercury Arsenic Beryllium Cadmium Antimony Selenium Barium Cobalt Chromium Copper Molybdenum Nickel Lead Tin Vanadium Zinc Iron	Documented In-House Methods based on BS 1377:Part 3:1990  Method No CE 006  Method No CE 004  Method CE 062 using ICP-OES  Method CE 061 using ICP-OES  Method No CE 049 2:1 Water soluble anions by Ion Chromatography  Documented In-House Methods based on ISO 11466 and Blue Book Methods for the Examination of Waters and Associated Materials  In House Method CE127 by ICPMS



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SOILS	<u>Chemical Tests</u> (cont'd)  Water Soluble Boron  Electrical conductivity  Thiocyanate  BTEX and MTBE: Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene MTBE	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:  In house method CE063 by ICP-OES  Method No CE 007 (ISBN 011 751428 4)  Method No CE 145 (ISBN 011 751934 X)  Method CE057 by GC-FID
SOILS	Total Organic Carbon Organic Matter Content by calculation  <u>Extractable Petroleum Hydrocarbons (EPH) in the range, with banding</u>  >C10-C40 >C10-C44 >C10-C12 >C10-C20 >C10-C21 >C10-C25 >C10-C28 >C12-C16 >C16-C21 >C16-C35 >C20-C40 >C21-C35 >C21-C40 >C25-C40 >C28-C40 >C35-C40 >C35-C44	Documented In-House Method CE072 using Eltra carbon analyser  Documented in house method CE033 using GC-FID



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SOILS (cont'd)	<u>Chemical Tests (cont'd)</u>  Polyaromatic Hydrocarbons  Naphthalene, Acenaphthylene Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene Pyrene Chrysene, Benzo(a)anthracene, Benzo(k)fluoranthene, Benzo(b)fluoranthene Benzo(a)pyrene, Indeno(1,2,3,c,d)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:  Documented in house method CE087 USING GCMS detection
SOILS (cont'd)	<u>Chemical Tests (cont'd)</u>  PolyChlorinated Biphenyl Congeners: PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB Total of ICES 7  Elemental Sulphur	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:  Documented in house method CE137 using GCMS detection  In house method CE034 using HPLC



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SOILS	<u>Chemical Tests</u>  pH Acid soluble sulphate Water soluble sulphate (2:1) Thiocyanate Total Organic Carbon Organic Matter Content by calculation	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil  Method CE 004 Method CE 062 using ICP-OES Method CE 061 using ICP-OES Method CE 145 Documented In-House Method CE072 using Eltra carbon analyser



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Metals Mercury Arsenic Cadmium Selenium Barium Cobalt Chromium Copper Molybdenum Nickel Lead Tin Vanadium Zinc Iron</p> <p>Water Soluble Boron</p> <p>Polyaromatic Hydrocarbons</p> <p>Naphthalene, Acenaphthylene Acenaphthene, Phenanthrene, Fluoranthene Pyrene Chrysene, Benzo(k)fluoranthene, Benzo(b)fluoranthene Indeno(1,2,3,c,d)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene</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 CE127 by ICPMS</p> <p>In house method CE063 by ICP-OES</p> <p>Documented in house method CE087 using GCMS detection</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p><u>Extractable Petroleum Hydrocarbons (EPH) in the range, with banding</u></p> <p>&gt;C10-C40 &gt;C10-C44 &gt;C10-C12 &gt;C10-C20 &gt;C10-C21 &gt;C10-C25 &gt;C10-C28 &gt;C12-C16 &gt;C16-C21 &gt;C16-C35 &gt;C20-C40 &gt;C21-C35 &gt;C21-C40 &gt;C25-C40 &gt;C28-C40</p> <p>PolyChlorinated Biphenyl Congeners: PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB Total of ICES 7</p> <p>Elemental Sulphur</p>	<p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil</p> <p>Documented in house method CE033 using GC-FID</p> <p>Documented in house method CE137 using GCMS detection</p> <p>In house method CE034 using HPLC</p>



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WATERS	<u>Chemical Tests</u>	Documented In-House Methods based on BS 1377:Part 3:1990
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	pH value	Method No CE 004
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Ammonia	Method No CE 012 by Colorimetry
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Electrical conductivity	Method No CE 007 (ISBN 011 751428 4)
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Alkalinity	Method No CE 035 (ISBN 011 751601 5)
surface water, landfill leachate and industrial effluent	Chemical Oxygen Demand (Total, Settled, Filtered)	Documented In house method CE037



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<p>WATERS</p> <p>Groundwater, Surface water, Landfill leachate, Leachate prepared from soils, Effluent</p>	<p><u>Chemical Tests</u></p> <p>Filtered Metals:</p> <p>Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Cobalt Chromium Copper Iron Mercury Manganese Molybdenum Nickel Lead Selenium Strontium Tin Vanadium Zinc Calcium Magnesium Phosphorus Potassium Sulphur Sodium</p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:</p> <p>Documented In house method CE128 by ICPMS</p>
<p>Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent</p>	<p>BTEX and MTBE: Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene MTBE</p>	<p>Method CE057 by GC-FID</p>
<p>Groundwater, surface water, leachate from landfill, effluent</p>	<p>Suspended solids</p>	<p>Method No CE 038 (ISBN011 751957 X)</p>





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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:
Groundwater, surface water, leachate from landfill	Chromium (hexavalent)	Method No CE 050 by Colorimetry
Groundwater, leachate prepared from soil, effluent	Anions (fluoride, chloride, bromide, nitrite, nitrate, sulphate, phosphate)	Method No CE 049 by Ion Chromatography
Groundwater, surface water	Thiocyanate	Method No CE 014 (ISBN 011 751934 X)
Groundwater, surface water, effluent, landfill leachate and prepared leachate	Total Organic Carbon Dissolved Organic Carbon (as non purgeable organic carbon)	Method No CE071 by TOC analyser
END		