


Schedule of Accreditation

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>2531</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Chemtech Environmental Limited</h3> <p>Issue No: 042 Issue date: 14 April 2021</p>	
	<p>Unit 6 Parkhead Greencroft Industrial Park Stanley County Durham DH9 7YB</p>	<p>Contact: Mr J Burbeck Tel: +44 (0)1207 528578 Fax: +44 (0)1207 581582 E-Mail: jamieburbeck@chemtech-env.co.uk Website: www.chemtech-env.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	<p><u>Chemical Tests</u></p> <p>Loss on ignition at 440°C</p> <p>pH value</p> <p>Acid soluble sulphate</p> <p>Water soluble sulphate (2:1)</p> <p>Anions (chloride, nitrate sulphate,)</p> <p>Metals:</p> <p>Metals Mercury Arsenic Beryllium Cadmium Antimony Selenium Barium Cobalt Chromium Copper Iron Molybdenum Nickel Lead Tin Vanadium Zinc</p>	<p>Documented In-House Methods based on BS 1377:Part 3:1990</p> <p>Method No CE 006</p> <p>Method No CE 004</p> <p>Method CE 062 using ICP-OES</p> <p>Method CE 061 using ICP-OES</p> <p>Method No CE 1932:1 Water soluble anions by Ion Chromatography</p> <p>Documented In-House Methods based on ISO 11466 and Blue Book Methods for the Examination of Waters and Associated Materials</p> <p>In House Method CE127 by ICPMS</p>



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited
Issue No: 042 Issue date: 14 April 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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 CE192 by GC-FID
SOILS	<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 DRO (>C10-C25) MRO (>C25-C40)	Documented in house method CE033 using GC-FID



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited
Issue No: 042 Issue date: 14 April 2021

Testing performed at main address only

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



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited
Issue No: 042 Issue date: 14 April 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	<u>Chemical Tests</u> pH Acid soluble sulphate Water soluble sulphate (2:1) Thiocyanate	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



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited
Issue No: 042 Issue date: 14 April 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> Metals Mercury Arsenic Cadmium Selenium Barium Cobalt Chromium Copper Iron Molybdenum Nickel Lead Tin Vanadium Zinc Water Soluble Boron Polyaromatic Hydrocarbons 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	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil In House Method CE127 by ICPMS In house method CE063 by ICP-OES Documented in house method CE087 using GCMS detection



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited
Issue No: 042 **Issue date:** 14 April 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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>>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 DRO (>C10-C25) MRO (>C25-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>



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited
Issue No: 042 Issue date: 14 April 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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 213
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 214 (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



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited
Issue No: 042 Issue date: 14 April 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS	<u>Chemical Tests</u>	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:
Groundwater, Surface water, Landfill leachate, Leachate prepared from soils, Effluent	Filtered Metals: 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	Documented In house method CE128 by ICPMS
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	BTEX and MTBE: Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene MTBE	Method CE057 by GC-FID
Groundwater, surface water, leachate from landfill, effluent	Suspended solids	Method No CE 038 (ISBN011 751957 X)



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited
Issue No: 042 Issue date: 14 April 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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)
END		