


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <b>2183</b>  Accredited to <b>ISO/IEC 17025:2005</b>	<b>Chemtest Ltd</b>	
	<b>Issue No: 058    Issue date: 27 February 2012</b>	
	<b>Depot Road Newmarket Suffolk CB8 0AL</b>	<b>Contact: Mr John Crawford Tel: +44 (0)1638 606070 Fax: +44 (0)1638 606071 E-Mail: john.crawford@chemtest.co.uk Website: www.chemtest.co.uk</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Depot Road Newmarket Suffolk CB8 0AL	<b>Contact:</b> Mr John Crawford  Tel: +44 (0)1638 606070 Fax: +44 (0)1638 606071 E-Mail: john.crawford@chemtest.co.uk	Chemical Testing  A
<b>Address</b> Unit 7 Laureate Paddocks Newmarket Suffolk CB8 0AP	<b>Contact:</b> Mr John Crawford  Tel: +44 (0)1638 606070 Fax: +44 (0)1638 606071 E-Mail: john.crawford@chemtest.co.uk	Asbestos Analysis  B





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Sulphate	SOP 2430 by Digiprep hotblock digestion followed by ICP (ISBN 011 753 244 4:1996)	A
	pH value	SOP 2010 by pH meter (ISBN 011 751 252 4:1977)	A
	Polynuclear Aromatic Hydrocarbons (PAHs): Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenzo[a,h]anthracene Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene Total PAHs (sum of 16 above)	SOP 2700 by GC-FID (ISBN 087 553 223 3:1995)	A
	Polynuclear Aromatic Hydrocarbons (PAHs): Acenaphthene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,l)perylene Chrysene Fluoranthene Fluorene Indeo(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 13 above)	SOP 2800 by GC-MS	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Vanadium Zinc	SOP 2450 by digiprep hotblock digestion followed by ICP-Mass Spectroscopy (ISBN 011 753 244 4:1996)	A
	Total Petroleum Hydrocarbons including Gasoline Range Organics (GRO, Diesel Range Organics (DRO)	SOP 2670 by GC-FID (ISBN 011 752 222 8:1988)	A
	Volatile Organic Compounds (VOCs): Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Bromochloromethane Trichloromethane 1,1,1-Trichloroethane Tetrachloromethane 1,1-Dichloropropene Benzene 1,2-Dichloroethane Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane	SOP 2760 by Headspace GC-MS based on EPA 524.2:1992	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	<u>Chemical Tests</u> (cont'd)  Volatile Organic Compounds (VOCs): (cont'd)  Toluene 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m- & p-Xylene o-Xylene Styrene Tribromomethane Isopropylbenzene Bromobenzene n-Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene 4-Isopropyltoluene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene  Polychlorinated biphenyls (PCBs): Aroclor mixture 1242	SOP 2810 by ASE or Sonication followed by GC-ECD	A



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SOIL	<u>Chemical Tests and Physical Tests</u>	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils	
	pH value	SOP 2010 by pH meter (ISBN 011 751 252 4:1977)	A
	Sulphur (elemental and organic)	SOP 2180 by HPLC	A
	Sulphur (Total)	SOP 2175 by combustion / IR photometry using Eltra CS 800 Based on TRL Report 447, Test 4B	A
	Boron (water soluble)	SOP 2120 by ICP spectrometry based on procedure in 'The Analysis of Agricultural Materials', ADAS (ISBN 011 242 762 6:1986)	A
	Sulphate (water soluble)	SOP 2120 by ICP spectrometry (ISBN 011 752 240 6:1988)	A
	Sulphate (acid soluble)	SOP 2430 by Digiprep hotblock digestion followed by ICP (ISBN 011 753 244 4:1996)	A
	Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Vanadium Zinc	SOP 2450 by digiprep hotblock digestion followed by ICP-Mass Spectroscopy (ISBN 011 753 244 4:1996)	A
	Total Cyanide	SOP 2300 by Skalar SAN++ Continuous flow analyser	A



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SOIL (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
	Free Cyanide	SOP 2310 by Skalar SAN++ Continuous flow analyser	A
	Thiocyanate	SOP 2330 by Skalar SAN++ Continuous flow analyser	A
	Sulphide	SOP 2325 by steam distillation and discrete colorimetric analyser	A
	TOC	SOP 2625 by Eltra Elemental Analyser	A
	Water Soluble Chloride	SOP 2220 by discrete colorimetric analyser	A
	Extractable Ammonium	SOP 2425 by discrete colorimetric analyser	A
	Volatile Organic Compounds (VOCs): 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Chlorotoluene Benzene Chlorobenzene Chloromethane Ethylbenzene 1,1,1,2-Tetrachloroethane Tetrachloroethene Tetrachloromethane Toluene 1,1,1-Trichloroethane Trichloroethene Trichloromethane Vinyl Chloride	SOP 2760 by Headspace GC-MS based on EPA 524.2:1992	A



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SOIL (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	A
	Polynuclear Aromatic Hydrocarbons (PAHs): Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,l)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Indeo(1,2,3-ccl)pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 16 above)	SOP 2700 by GC-FID based on 'Standard Methods for the examination of Water & Waste Water', APHA (ISBN 087 553 223 3:1995)	
	Polynuclear Aromatic Hydrocarbons (PAHs) Acenaphthene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,l)perylene Chrysene Fluoranthene Fluorene Indeo(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 13 above)	SOP 2800 by GC-MS	A



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SOIL (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)	
	Total Petroleum Hydrocarbons C <sub>8</sub> - C <sub>40</sub>	SOP 2670 by GC-FD (ISBN 011 752 2228:1988)	A
	Extractable Petroleum Hydrocarbons including fractionation and banding: >C <sub>8</sub> - C <sub>35</sub> >C <sub>8</sub> - C <sub>10</sub> >C <sub>10</sub> - C <sub>12</sub> >C <sub>12</sub> - C <sub>16</sub> >C <sub>16</sub> - C <sub>21</sub> >C <sub>21</sub> - C <sub>35</sub> >C <sub>8</sub> - C <sub>35</sub> aliphatics >C <sub>8</sub> - C <sub>10</sub> aliphatics >C <sub>10</sub> - C <sub>12</sub> aliphatics >C <sub>12</sub> - C <sub>16</sub> aliphatics >C <sub>16</sub> - C <sub>21</sub> aliphatics >C <sub>21</sub> - C <sub>35</sub> aliphatics >C <sub>8</sub> - C <sub>35</sub> aromatics >C <sub>8</sub> - C <sub>10</sub> aromatics >C <sub>10</sub> - C <sub>12</sub> aromatics >C <sub>12</sub> - C <sub>16</sub> aromatics >C <sub>16</sub> - C <sub>21</sub> aromatics >C <sub>21</sub> - C <sub>35</sub> aromatics	SOP 2675 by solvent extraction/ solid phase extraction/GC-FID	A
	Phenol	SOP 2920 by HPLC	A
	Polychlorinated biphenyls (PCBs) Aroclor mixture 1242	SOP 2810 by ASE or Sonication followed by GC-ECD	A
	Polychlorinated biphenyls (PCBs): PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	SOP 2815 by Sonication followed by GCMS	A



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WATERS	<u>Chemical Tests</u>	Documented In-House Methods based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Water and Associated Materials' referenced by ISBN number and year	
Groundwater and Leachates	Electrical conductivity	SOP 1020 by Conductivity Meter (ISBN 011 751 428 4:1978)	A
Groundwater and Laboratory Prepared Leachates	pH value	SOP 1010 by pH meter (ISBN 011 751 252 4:1977)	A
Groundwater and Leachates	Total hardness	SOP 1270 by calculation based on procedure in 'The Analysis of Agricultural Materials', ADAS (ISBN 011 242 762 6:1986)	A
Groundwater and Laboratory Prepared Leachates	Chromium (VI)	SOP 1490 by discrete colorimetric analyser	A
Groundwater and Laboratory Prepared Leachates	Dissolved Mercury	SOP 1460 by Atomic Fluorescence Spectrometry	A
Surface Water	Suspended Solids	SOP 1030 by gravimetry	A
Groundwater and Laboratory Prepared Leachates	Total Petroleum Hydrocarbons	SOP 1670 by GC-FID (ISBN 011 752 222 8:1988)	A
Groundwater and Laboratory Prepared Leachates	Volatile Organic Compounds (VOCs): Dichlorodifluoromethane Chloromethane Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Bromochloromethane Trichloromethane 1,1,1-Trichloroethane Tetrachloromethane 1,1-Dichloropropene	SOP 1760 by Headspace GC-MS based on EPA 524.2:1992	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Water and Associated Materials' referenced by ISBN number and year (cont'd)	
Groundwater and Laboratory Prepared Leachates (cont'd)	Volatile Organic Compounds (VOCs): (cont'd)  Benzene 1,2-Dichloroethane Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane Toluene 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane Dibromochloromethane 1,2-Dibromoethane 1,1,1,2-Tetrachloroethane Ethylbenzene m- & p-Xylene o-Xylene Styrene Tribromomethane Isopropylbenzene Bromobenzene n-Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 4-Isopropyltoluene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene		



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Groundwater and Laboratory Prepared Leachates	<u>Chemical Tests (cont'd)</u> Polycyclic Aromatic Hydrocarbons (PAHs): Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Dibenzo[a,h]anthracene Fluoranthene Fluorene Indeno[1,2,3]pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 16 above)	SOP 1700 by liquid/liquid extraction and GC-FID - based on Standard Methods for the Examination of Water and Waste Water' APHA. (ISBN 087 553 223 3:1995)	
Groundwater and Laboratory Prepared Leachates	Metals: Antimony Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Tin Vanadium Zinc	SOP 1450 by ICP-Mass Spectroscopy (ISBN 011 753 244 4:1996)	A



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
Groundwater Leachates	Sulphide	by SOP 1325 - discrete colorimetric analyser	A
Ground Water and Leachates	Cations: Sodium Calcium Potassium Magnesium	SOP 1415 by ICP-Mass Spectroscopy	A
Ground Water and Leachates	Chemical Oxygen Demand	SOP 1100 by Colorimetry	A
Ground Water and Leachates	Fluoride Chloride Nitrite Nitrate (by calculation) Total Oxidised Nitrogen Phosphate Sulphate Alkalinity Ammonium	SOP 1220 by discrete colorimetric analyser	A
Ground Water	Free Cyanide Total Cyanide Thiocyanate	SOP's 1300, 1310, 1320 and 1330 by continuous flow analyser	A
WASTEWATERS	<u>Chemical Tests and Physical Tests</u>		
Trade Effluent Treated Sewage Effluent	Electrical Conductivity	SOP 1020 by Conductivity Meter (ISBN 011 751 428 4:1978)	A
Trade Effluent Treated Sewage Effluent	pH	SOP 1010 by pH Meter (ISBN 011 751 252 4:1977)	A
Trade Effluent Treated Sewage Effluent	Ammonium	SOP 1220 by discrete colorimetric analyser	A
Trade Effluent Treated Sewage Effluent	COD	SOP 1100 by Colorimetry	A
Trade Effluent Treated Sewage Effluent	Electrical Conductivity	SOP 1020 by Conductivity Meter (ISBN 011 751 428 4:1978)	A



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WASTEWATERS	<u>Chemical Tests and Physical Tests</u>	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent	
Trade Effluent to Controlled Water and Trade Effluent to Sewer Treated Sewage Effluent	pH	SOP 1010 by pH Meter (ISBN 011 751 252 4:1977)	
Trade Effluent to Controlled Water and Trade Effluent to Sewer Treated Sewage Effluent	Ammonium	SOP 1220 by discrete colorimetric analyser	
Trade Effluent to Controlled Water and Trade Effluent to Sewer Treated Sewage Effluent	COD	SOP 1100 by Colorimetry	
END			