


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>STL Midlands</h3> <p>Issue No: 034 Issue date: 15 April 2010</p>	
	<p>STL Business Centre Torrington Avenue Coventry West Midlands CV4 9GU</p>	<p>Contact: Ms C Peacock Tel: +44 (0)2476 856458 Fax: +44 (0)2476 856575 E-Mail: claire.peacock@stl-ltd.com Website: www.stl-ltd.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
<p>Address STL Business Centre Torrington Avenue Coventry West Midlands CV4 9GU</p>	<p>Local contact Ms C Peacock Tel: +44 (0)2476 856458 Fax: +44 (0)2476 856575 Email: claire.peacock@stl-ltd.com</p>	<p>Environmental Analysis</p> <p>Support Functions: Quality management including auditing, document control, reporting</p>	TA
<p>Address Unit 1 & 2 Cumbernauld Business Park Wardpark Road Wardpark South Cumbernauld Scotland G67 3JZ</p>	<p>Local contact Ms C Peacock Tel: +44 (0)2476 856458 Fax: Email: claire.peacock@stl-ltd.com</p>	<p>Receipt and registration of soil and water samples</p>	SC



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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
<u>Bulk ID</u>	<u>Health and Hygiene</u>		
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248:February 2005 by Documented In-House Method Method 70 using stereo-microscopy, polarised light optical microscopy and dispersion staining	TA
Asbestos in soils (screen and ID)			
ASBESTOS IN SOILS (fibre screening and identification)	Asbestos Fibre Screening and Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method Method 70 using stereo-microscopy, polarised light optical microscopy and dispersion staining	TA
SOIL Sediment & Sludges	<u>Chemical Tests and Physical Tests</u>		
	Ammonia	Method 3a by distillation followed by titration based on SCA Method 48, Ammonia ISBN 011 751 613 9	TA
	Boron: Water Soluble (10:1)	Method 6 by ICP-OES	TA
	Cyanide: Free, Complex and Total	Method 14 , distillation followed by discrete analyser based on 'MEWAM', 1988 Method ISBN 011 752 219 8	TA
	Cyanide: Free, Complex and Total	Method LPH14 , distillation followed by titrimetry Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL Sediment & Sludges (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd) Thiocyanate: Water Soluble	Method 16a by spectrophotometry based on SCA Method 100, Thiocyanate ISBN 011 751 934 0	TA
Soils only	<u>Metals:</u> Arsenic Mercury Selenium	Method 30c by aqua regia extraction (microwave digestion) and hydride generated ICP-OES	TA
SOIL Sediment & Sludges	<u>Metals:</u> Antimony Arsenic Mercury Selenium	Method LPH30c by aqua regia extraction and hydride generated ICP-OES, Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
Soils only	<u>Elements:</u> Aluminium Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorus Silver Tin Vanadium Zinc	Method 30 by aqua regia digestion (microwave) and ICP-OES	TA



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SOIL Sediment & Sludges (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)		
	<u>Elements:</u> Aluminium Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Silver Vanadium Zinc	Method LPH 30 by aqua regia extraction and ICP-OES Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	Organic Matter	Method 36 by titration based on BS 1377:Part 3 ISBN 058 018 370 X	TA
	pH	1) Method 39 by electrometric measurement by EC robot/manual probe based on BS 1377:Part 3:1990, Method 9 2) Method LPH 39 by electrometric measurement by EC robot/manual probe based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	Phenols: Total Steam Distillable	Method 40a by Distillation followed by colorimetry based on 'MEWAM', 1981 Method and EPA Method 9065A	TA



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SOIL Sediment & Sludges (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)		
	Solvent Extractable Matter: (with boiling point > 190°C) Cyclohexane Toluene	Method No 43 by Soxhlet extraction and gravimetry	TA
	Sulphate: Acid Extractable	Method 45 , acid extraction based on BS 1377:Part 3:1990, Section 5.2.4 and determination by turbidimetry, based on MAFF RB 427, Method 70, 3.2	TA
	Sulphide: Acid Soluble	Method 47 , distillation followed by discreet analyser based on 'MEWAM', Method 73, 1983	TA
	Loss on Ignition	Method 337 by Gravimetry based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
Soils only	Sulphur: Elemental	1) Method 51 by microwave extraction and HPLC 2) Method LPH 51 by Soxhlet extraction and HPLC, based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	Volatile Petroleum Hydrocarbons: C5-C10 (including banding; aromatic/aliphatic fractionation and subsequent banding) benzene toluene ethylbenzene o-xylene m/p-xylene MTBE	Method 304 by GC-MS/FID	TA



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SOIL Sediment & Sludges (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd) 2) <u>VOCs</u> : (cont'd) Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon tetrachloride 1,2-Dichloroethane Benzene Trichloroethylene 1,2-Dichloropropane Bromodichloromethane Dibromomethane Cis-1,3-Dichloropropene Toluene Trans-1,3-Dichloropropene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethylene Dibromochloromethane 1,2-Dibromoethane Chlorobenzene Ethylbenzene 1,1,1,2- Tetrachloroethane m/p xylene o-Xylene Styrene Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-butylbenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane	Method 327 (cont'd)	TA



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SOIL Sediment & Sludges (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd) <u>SVOCs:</u> (cont'd) 7,12-dimethylbenz(a)anthracene Acetophenone Aniline Benzidine Benzoic acid Benzyl alcohol Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroisopropyl)ether Bis(-2-chloroethyl)ether Carbazole 2-Chlorophenol Dibenz(a,h)anthracene 1,3-Dichlorobenzene 2,4-Dinitrophenol Indeno (1,2,3-cd)pyrene Naphthalene N-Nitroso-di-n-propylamine diphenylamine & diphenylnitrosamine (co-eluting compounds) 2-Nitrophenol Phenol 1,2,4-Trichlorobenzene 2,4,6-Trichlorophenol 1,2,4,5-tetrachlorobenzene 1-naphthylamine 2,3,4,6-tetrachlorophenol Hexachlorocyclopentadiene 2,4-dimethylphenol 2-naphthylamine 2-nitroaniline 2-picoline 3,3-dichlorobenzidene 3-methylcholanthrene 3-nitroaniline 4-chloroaniline 4-nitroaniline n-nitrosodibutylamine n-nitrosopiperidine	Method 316 (cont'd)	TA



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SOIL Sediment & Sludges (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd) SVOCs: (cont'd) Pentachlorobenzene Phenacetin Hydrocarbons, >C6 - C40 (to include banding, aromatic/aliphatic fractionation and subsequent banding) Hydrocarbons, >C9 - C40	Method 316 (cont'd) Method 317 by solvent extraction and GC-FID MS based on CEN/TC 292/WG5 Method LPH 317 by Soxhlet extraction, and GC-FID, based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA TA TA
Soils only	Extractable Petroleum Hydrocarbons: C10-C44 (including banding; aromatic/aliphatic fractionation and subsequent banding)	Method 317EPH by GC-FID	TA
SOIL Sediment & Sludges	Phenols: Cresols Xylenols Trimethyl phenol Naphthol Butylphenol Resorcinol Phenol Total Phenols (sum of above) Sulphate: Water Soluble Chloride: Water Soluble	Method 322 by HPLC based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006 Method 335 by ion chromatography based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA TA



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SOILS	<u>Chemical Tests and Physical Tests</u>	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils	
	Ammonia	Method 3a by distillation followed by titration based on SCA Method 48, Ammonia ISBN 011 751 613 9	TA
	Boron: Water Soluble (10:1)	Method 6 by ICP-OES	TA
	Cyanide: Free, Complex and Total	Method 14 , distillation followed by discrete analyser based on 'MEWAM', 1988 Method	TA
	Cyanide: Free, Complex and Total	Method LPH14 , distillation followed by titrimetry Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	Thiocyanate: Water Soluble	Method 16a by spectrophotometry based on SCA Method 100, Thiocyanate ISBN 011 751 934 0	TA
	<u>Metals:</u> Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Vanadium Zinc	Method 30 by aqua regia extraction (microwave digestion) and ICP-OES, based on SCA Method 93, 1986 ISBN 011 751 908 1 Draft CEN/TC 308/WG1/TGI	TA



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SOILS (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)		
	<u>Metals:</u> Arsenic Mercury Selenium		Method 30C by aqua regia extraction (microwave digestion) and hydride generated ICP-OES based on SCA Methods 92, 1985 and 99, 1987 ISBN 011 751 907 3, 1985, and ISBN 011 751 933 2, 1987	TA
	<u>Metals:</u> Arsenic Cadmium Chromium Copper Iron Lead Manganese Nickel Zinc		Method LPH 30 based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	<u>Metals:</u> Arsenic Mercury Selenium		Method LPH30c based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	pH		1) Method 39 by electrometric measurement by EC robot/manual probe based on BS 1377:Part 3:1990, Method 9 2) Method LPH 39 by electrometric measurement by EC robot/manual probe based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	Phenols: Total Steam Distillable	Method 40a by Distillation followed by colorimetry based on 'MEWAM', 1981 Method and EPA Method 9065A	TA	



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SOILS (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)	
	Sulphate: Acid Extractable	Method 45 , acid extraction based on BS 1377:Part 3:1990, Section 5.2.4 and determination by turbidimetry, based on MAFF RB 427, Method 70, 3.2	TA
	Sulphide: Acid Soluble	Method 47 , distillation followed by discreet analyser based on 'MEWAM', Method 73, 1983	TA
	Loss on Ignition	Method 337 by Gravimetry based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	Sulphur: Elemental	1) Method 51 by microwave extraction and HPLC 2) Method LPH 51 by Soxhlet extraction and HPLC, based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	Volatile Petroleum Hydrocarbons: C5-C10 benzene toluene ethylbenzene o-xylene m/p-xylene MTBE	Method 304 by GC-MS/FID	TA



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SOILS (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)	
	Hydrocarbons, >C6 - C40	Method 317 by solvent extraction and GC-FIDMS based on CEN/TC 292/WG5	TA
	Hydrocarbons, >C9 - C40	Method LPH 317 by Soxhlet extraction, and GC-FID, based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
	Polychlorinated Biphenyls - Total as Arochlors	Method 309 by GC-ECD based on USEPA Method 8082	TA
	Polychlorinated Biphenyls as Congeners 101, 118, 138, 52, 153, 180, 28	Method 312 based on the determination of organochlorine insecticides and polychlorinated biphenyls in sewage, sludge, mud and fish, 1978	TA
	<u>PAHs:</u> Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Chrysene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Indeno(1,2,3,c,d)pyrene	Method 313 by GC-MS based on Gas Chromatography Analysis of Polycyclic Aromatic Hydrocarbons, GACHAMJA A. M. Chromatography and Analysis (1992), 9-11	TA



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SOILS (cont'd)	<u>Chemical Tests and Physical Tests (cont'd)</u> VOCs: Chloromethane Chloroethane Bromomethane Vinyl Chloride Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride (DCM) Trans-1,2-Dichloroethene 1,1-Dichloroethane Cis-1,2 Dichloroethene 2,2-Dichloropropane Chloroform Bromochloromethane 1,2-Dichloroethane 1,1,1 Trichloroethane 1,1 Dichloropropene 1,4 -Difluorobenzene Benzene Carbon Tetrachloride 1,2-Dichloropropane Trichloroethene (TCE) Dibromomethane Bromodichloromethane Cis/Trans-1,3-Dichloropropene Toluene 1,1,2-Trichloroethane 1,3-Dichloropropane Dibromochloromethane 1,2 Dibromoethane tetrachloroethene Chlorobenzene 1,1,1,2-tetrachloroethane Ethylbenzene m & p xylene Bromoform Styrene 1,1,2,2 Tetrachloroethane o-xylene 1,2,3 Trichloropropane Isopropylbenzene	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd) Method 315 by purge & trap GC-MS based on EPA SW846, Test methods for evaluating Solid Waste, Physical/Chemical Methods, 3 rd Edition, Update 111, Dec 1996	TA



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SOILS (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)	TA
	<u>VOCs:</u> (cont'd) Bromobenzene 2-Chlorotoluene n-Propylbenzene 4-Chlorotoluene 1,3,5-Trimethylbenzene Tert-butylbenzene Sec-butylbenzene p-Isopropyltoluene 1,2,4-Trimethylbenzene 1,3 Dichlorobenzene 1,4 Dichlorobenzene 1,2 Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3 Trichlorobenzene	Method 315 (cont'd)	
	<u>Volatile Organic Compounds:</u> Dichlorodifluoromethane Chloromethane 1,1-Dichloroethene Methylene Chloride Trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Chloroform Bromochloromethane 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon tetrachloride 1,2-Dichloroethane Benzene Trichloroethylene 1,2-Dichloropropane Bromodichloromethane Dibromomethane Cis-1,3-Dichloropropene	Method 327 by headspace GC-MS based on USEPA Method 8260/624	TA



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SOILS (cont'd)	<p><u>Chemical Tests and Physical Tests</u> (cont'd)</p> <p>Extractable Petroleum Hydrocarbons: Total EPH C10-C44 Banding: >C₁₀ to C₁₂ >C₁₂ to C₁₆ >C₁₆ to C₂₁ >C₂₁ to C₃₅ >C₂₁ to C₄₀ >C₃₅ to C₄₄</p> <p>Aliphatic/aromatic speciation. Banding of aromatic fraction: >C₁₀ to C₁₂ >C₁₂ to C₁₆ >C₁₆ to C₂₁ >C₂₁ to C₃₅ >C₂₁ to C₄₀ >C₃₅ to C₄₄ Total Aromatics</p> <p>Banding of aliphatic fraction: >C₁₀ to C₁₂ >C₁₂ to C₁₆ >C₁₆ to C₂₁ >C₂₁ to C₃₅ >C₁₆ to C₃₅ >C₂₁ to C₄₀ >C₃₅ to C₄₄ Total Aliphatics</p> <p>Phenols: Cresols Xylenols Trimethyl phenol Naphthol Butylphenol Resorcinol Phenol Total Phenols (sum of above)</p>	<p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils (cont'd)</p> <p>Method 317EPH by GC-FID</p> <p>Method 322 by HPLC based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006</p>	<p>TA</p> <p>TA</p>



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SOILS (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)	
	Sulphate: Water Soluble Chloride: Water Soluble	Method 335 by ion chromatography based on Methods for the Collection and Analysis of Samples from National Grid Sites Version 1.0 Sept 2006	TA
Soils and waters	Receipt and registration of soil and water samples	In-house procedure	SC & TA
END			