


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>	Scientific Analysis Laboratories Ltd	
	Issue No: 022 Issue date: 23 September 2011	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
LEACHATES WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic	<u>Chemical Tests</u>	Documented In-House Methods based on 'Methods for Examination of Water and Associated Materials 'MEWAM' Department of the Environment Standing Committee of Analysts identified and the Methods of the American Public Health Association - American Water Works Association - Water Pollution Control Federation (APHA-AWWA-WPCF) identified by method number
	Ammonia	Section 13, Laboratory Procedures Method based on MEWAM ISBN 0117516139, HMSO 1981 by spectrophotometry
	Chemical Oxygen Demand	Section 19, Laboratory Procedures Method based on MEWAM ISBN 0117519154, HMSO 1986 by spectrophotometry
	Total Suspended Solids	Section 20, Laboratory Procedures Method based on MEWAM ISBN 0117511957X, HMSO 1980 by gravimetry
LEACHATES SLUDGES SOILS WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic waste	Cyanide (total and free)	Section 9, Laboratory Procedures Manual based on MEWAM ISBN 0117522198, HMSO 1988 and APHA-AWWA-WPCF Part 4500 by distillation and potentiometry



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<p>LEACHATES SLUDGES SOILS WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic waste (cont'd)</p> <p>WATERS, raw WASTE WATERS, treated and untreated, industrial and domestic SOILS and SEDIMENTS</p> <p>WATERS, clean and ground</p> <p>WATERS Clean water, ground water Prepared Leachate Landfill leachate</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Phenols (monohydric)</p> <p>Total and speciated Petroleum Hydrocarbons (TPH)</p> <p>Bromide Chloride Fluoride Nitrate Nitrite Sulphate</p> <p>Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Antimony Selenium Tin Vanadium Zinc</p>	<p>Section 8, Laboratory Procedures Manual based on MEWAM ISBN 0117516171, HMSO 1981 by spectrometry</p> <p>Standard Operating Procedure 100 based on USEPA Method 8015B, 1996</p> <p>Section 18 Laboratories Procedures Manual based on MEWAM ISBN 0117514284 and Standard Methods APHA 1989 by Ion Chromatography</p> <p>Section 23 Laboratories Procedures Manual using ICP-MS</p>
<p>SOILS, SLUDGES and SEDIMENTS</p>	<p>Boron (water soluble) Sulphate (water soluble)</p>	<p>Section 16 Laboratories Procedures Manual. Documented in-house method using ICP-OES</p>



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LEACHATES, SOILS, SLUDGES and SEDIMENTS, WATERS, Raw and Clean, WASTEWATERS, Treated and Untreated, Industrial and Domestic, FILTERS	<u>Chemical Tests (cont'd)</u> Aluminium Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Manganese Mercury Nickel Selenium Tin Vanadium Zinc	Section 16 Laboratories Procedures Manual based on MEWAM ISBN 0117516155, HMSO 1981 and APHA-AWWA-WPCF 1992, 18 th Edition by ICP-OES
SOILS, SLUDGES and SEDIMENTS	<u>Semi-Volatile Organic Compounds (SVOC):</u> 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-methyl phenol 2-Methylnaphthalene 2-Nitroaniline 2-Nitrophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,6-Dinitrotoluene 3-Nitroaniline 3/4-Methylphenol 4-Bromophenyl phenylether 4-Chloro-3-methylphenol 4-Chloroaniline 4-Chlorophenyl phenylether 4-Nitroaniline 4-Nitrophenol	Documented in-house method SOP12E using GC-MS



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SOILS, SLUDGES and SEDIMENTS (cont'd)	<u>Chemical Tests (cont'd)</u> <u>Semi-Volatile Organic Compounds (SVOC): (cont'd)</u> Acenaphthene Acenaphthylene Anthracene Azobenzene Benzo(a)Anthracene Benzo(a)Pyrene Benzo(b)Fluoranthene Benzo(k)Fluoranthene Benzo(ghi)Perylene Bis (2-chloroethoxy) methane Bis (2-chloroethyl) ether Bis (2-chloroisopropyl) ether Bis (2-ethylhexyl)phthalate Butyl benzylphthalate Carbazole Chrysene Di-n-butylphthalate Di-n-octylphthalate Dibenzo(ah)Anthracene Dibenzofuran Diethyl phthalate Dimethyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(123-cd)Pyrene Isophorone Naphthalene Nitrobenzene Pentachlorophenol Phenanthrene Phenol Pyrene	Documented in-house method SOP12E using GC-MS



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GROUND WATER, SURFACE WATER and EFFLUENT (cont'd)	<u>Chemical Tests (cont'd)</u> <u>Semi-Volatile Organic Compounds (SVOC): (cont'd)</u> 2,6-Dinitrotoluene 3-Nitroaniline 3/4-Methylphenol 4-Bromophenyl phenylether 4-Chloro-3-methylphenol 4-Chloroaniline 4-Chlorophenyl phenylether 4-Nitroaniline 4-Nitrophenol Acenaphthene Acenaphthylene Anthracene Azobenzene Benzo(a)Anthracene Benzo(a)Pyrene Benzo(b)Fluoranthene Benzo(k)Fluoranthene Benzo(ghi)Perylene Bis (2-chloroethoxy) methane Bis (2-chloroethyl) ether Bis (2-chloroisopropyl) ether Bis (2-ethylhexyl)phthalate Butyl benzylphthalate Carbazole Chrysene Di-n-butylphthalate Di-n-octylphthalate Dibenzo(ah)Anthracene Dibenzofuran Diethyl phthalate Dimethyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(123-cd)Pyrene Isophorone Naphthalene Nitrobenzene Pentachlorophenol Phenanthrene Phenol Pyrene	Documented in-house method SOP12E using GC-MS



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GROUND WATER, SURFACE WATER and EFFLUENT (cont'd)	<u>Chemical Tests (cont'd)</u> <u>Phenols:</u> 2-methyl phenol 2,3-dimethylphenol 2,5-dimethylphenol 2,6-dimethylphenol 3/4-methylphenol Phenol <u>Polynuclear Aromatic Hydrocarbons:</u> Acenaphthene Acenaphthylene Anthracene Benzo(a)Anthracene Benzo(a)Pyrene Benzo(ghi)Perylene Benzo(b)Fluoranthene Benzo(k)Fluoranthene Chrysene Dibenzo(ah)Anthracene Fluoranthene Fluorene Indeno(123-cd)Pyrene Naphthalene Phenanthrene Pyrene Total PAH (SUM of 16 above)	Documented in-house method SOP12B using GC-MS Documented in-house method SOP12A using GC-MS
SOILS and WATERS (Groundwaters and Leachates)	<u>Volatile Organic Compounds</u> <u>EPA 624 Suite:</u> Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethylene Methylene Chloride 1,1-Dichloroethane Trans-1,2-Dichloroethylene MTBE 2,2-Dichloropropane cis-1,2-Dichloroethylene Bromochloromethane Chloroform 1,1,1-Trichloroethane	Documented In-House Method SOP12I using Headspace GC-MS



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SOILS and WATERS (Groundwaters and Leachates) (cont'd)	<u>Chemical Tests</u> (cont'd) <u>Volatile Organic Compounds</u> <u>EPA 624 Suite:</u> (cont'd) Carbon Tetrachloride 1,1-Dichloropropene Benzene 1,2-Dichloroethane Trichloroethylene 1,2-Dichloropropane Dibromomethane Bromodichloromethane cis-1,3-Dichloropropene Toluene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethylene 1,3-Dichloropropane Chlorodibromomethane 1,2-Dibromomethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m+p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 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 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene	Documented In-House Method SOP12I or SOP12J using Headspace GC-MS



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<p>LEACHATES SOILS, SLUDGES and SEDIMENTS WATERS, raw and clean WASTE WATERS, treated and untreated, industrial and domestic</p> <p>SOILS (only)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>pH</p> <p><u>Chemical Tests</u></p> <p>pH</p> <p>Arsenic Beryllium Cadmium Chromium Cobalt Copper Lead Nickel Zinc</p>	<p>Section 11, Laboratory Procedures Manual based on BS 1377:Part 3:1990, MEWAM, ISBN 0117514284, HMSO 1978 and APHA-AWWA-WPCF 1992, 18th Edition</p> <p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil</p> <p>Section 11, Laboratory Procedures Manual based on BS 1377:Part 3:1990, MEWAM, ISBN 0117514284, HMSO 1978 and APHA-AWWA-WPCF 1992, 18th Edition</p> <p>Section 16 Laboratories Procedures Manual based on MEWAM ISBN 0117516155, HMSO 1981 and APHA-AWWA-WPCF 1992, 18th Edition by ICP-OES</p>
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