Schedule of Accreditation

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Eurofins Chemtest Limited

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11 Depot Road
Newmarket
Suffolk
CB8 0AL

Contact: Bailey Maclaine
Tel: +44 (0)1638 606070
Fax: +44 (0)1638 606071
E-Mail: bailey.maclaine@etuki.eurofins.com
Website: www.chemtest.co.uk

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address 11 Depot Road Newmarket Suffolk CB8 0AL **Contact:** As above	Chemical Testing & Asbestos Analysis Health and Hygiene Head Office Asbestos – All Support Functions	A
Address Unit F7 Prospect Business Park Durham DH8 7PW **Contact:** As above	Asbestos Analysis Health and Hygiene Asbestos – Support Functions: • *Quality Audit Administration* • *Contract Review* • *Scheduling* • *Personnel* • *Equipment* • *Measurement Traceability* • *Reporting*	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	<u>Health and Hygiene</u>	Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021	
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method SOP 2185 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248	A & B
ASBESTOS IN SOILS – The Identification and Quantification of Asbestos fibres in bulk samples of Soil: *Soil* *Sediment* *Crushed Concrete* *Rail Ballast*	Identification and Quantification of Asbestos content of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method SOP 2192 for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248. Documented In-House Method SOP 2192 for quantification of asbestos.	A & B
SOIL	<u>Chemical Tests</u>	Documented In-House Method based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Water and Associated Materials', unless otherwise stated, referenced by ISBN number and year	
	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests (cont'd)		
	Loss on Ignition (550°C)	SOP 2610 using gravimetry	A
	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
	Polynuclear Aromatic Hydrocarbons (PAHs): Anthracene Acenaphthene Acenaphthylene 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 based on 'Standard Methods for the examination of Water & Waste Water', APHA (ISBN 087 553 223 3:1995)	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests (cont'd)		
	Polycyclic 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 Indeno[1,2,3]pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 16 above)	SOP 2800 by GC-MS	A
	Total Cyanide Free Cyanide Thiocyanate	SOP 2300 by Skalar SAN++ Continuous flow analyser	A
	TOC Soil Organic Matter (by calculation	SOP 2625 by Eltra Elemental Analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests (cont'd)		
	Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Silver Strontium Tin Thallium Vanadium Zinc	SOP 2455 by ICP-Mass Spectroscopy	A
	Water Soluble Chloride	SOP 2220 by discrete colorimetric analyser	A
	Extractable Ammonium	SOP 2425 by discrete colorimetric analyser	A
	Volatile Petroleum Hydrocarbons: >eC5-eC6 Aliphatic >eC6-eC7 Aliphatic >eC7-eC8 Aliphatic >eC8-eC10 Aliphatic >eC5-eC7 Aromatic >eC7-eC8 Aromatic >eC8-eC10 Aromatic Sum bands: >eC5-eC10 Aliphatic >eC5-eC10 Aromatic >eC5-eC10 Total VPH	SOP 2780 by solvent extraction and GCxGC- FID	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests (cont'd) Volatile Organic Compounds (VOCs): Chloromethane Vinyl chloride Bromomethane Trichlorofluoromethane 1,1-Dichloroethene trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Trichloromethane 1,1,1-Trichloroethane Tetrachloromethane Benzene 1,2-Dichloroethane 1,2-Dichloropropane Dibromomethane Bromodichloromethane Toluene 1,1,2-Trichloroethane Tetrachloroethene 1,2-Dibromoethane Chlorobenzene 1,1,1,2 –Tetrachloroethane Ethylbenzene m & p - Xylene o- Xylene Styrene Isopropylbenzene Bromobenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene MTBE Total Xylenes Dichlorodifluoromenthane Chloroethane	SOP 2760 by Headspace GC-MS based on EPA 524.2:1992	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests (cont'd)		
	Volatile Organic Compounds (VOCs): (cont'd) Bromochloromethane 1-1,Dichloropropene 1,3, Dichloropropane Dibromochloromethane Tribromomethane N-propylbenzene 4-Chlorotoluene Tert-Butylbenzene Sec-Butylbenzene 4-Isopropyltoluene N-Butylbenzene 1,2-Dibromo-3-chloropropane 1,2,3-Trichlorobenzene	SOP 2760 by Headspace GC-MS based on EPA 524.2:1992 (cont'd)	A
	Extractable Petroleum Hydrocarbons including fractionation and banding Aliphatic >C10-C12 Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Aromatic >eC10-eC12 Aromatic >eC12-eC16 Aromatic >eC16-eC21 Aromatic >eC21-eC35 Sum bands: Total Aliphatic >C10-C35 Total Aromatic >eC10-eC35 Total EPH >C10-C35	SOP 2690 by solvent extraction and GCxGC- FID	A
	Phenols: Resorcinol Phenol Methylphenols Dimethylphenols Trimethylphenols	SOP 2920 by HPLC	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests (cont'd)		
	Polychlorinated biphenyls (PCB's): PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	SOP 2815 by Sonication followed by GCMS	A
	EPH (>C10-C35): Aliphatic > C8-C10 Aliphatic > C10-C12 Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Aromatic >eC8-eC10 Aromatic >eC10-eC12 Aromatic >eC12-eC16 Aromatic >eC16-eC21 Aromatic >eC21-eC35 Sum Bands: Total Aliphatic >C10-C35 Total Aromatic >eC10-eC35 Total EPH >C10-C35	SOP 5002 by GCxGC-FID by Multi-extraction	A
	TPH: TPH > C10-C40	SOP 5001 by GC-FID by Multi-extraction	A
	Benzene Toluene Ethylbenzene m/p-xylene o-xylene MTBE	SOP 5006 using Headspace with GCxGC-FID	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests (cont'd) SVOCS: Benzo(k)fluoranthene Bis(2-Chloroethoxy)methane Chrysene Dibenzofuran Diethyl phthalate Dimethylphthalate Fluoranthene Fluorene Hexachlorobutadiene Naphthalene N-Nitrosodi-n-propylamine Phenanthrene Pyrene N-Nitrosodimethylamine Phenol Bis(2-Chloroethyl)ether 1,3-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 4-Methylphenol Isophorone 2-Methylnaphthalene Azobenzene 4-Bromophenylphenyl ether Hexachlorobenzene Carbazole	SOP 2790 by solvent extraction and GCMS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL	Chemical Tests and Physical Tests	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
	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	A
	SVOCS: 1,2,4-Trichlorobenzene 2-Chloronaphthalene 4-Chlorophenylphenylether Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene	SOP 2790 by solvent extraction and GCMS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests (cont'd)		
	SVOCS: Benzo(k)fluoranthene Bis(2-Chloroethoxy)methane Chrysene Dibenzofuran Diethyl phthalate Dimethylphthalate Fluoranthene Fluorene Hexachlorobutadiene Naphthalene N-Nitrosodi-n-propylamine Phenanthrene Pyrene N-Nitrosodimethylamine Phenol Bis(2-Chloroethyl)ether 1,3-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 4-Methylphenol Isophorone 2-Methylnaphthalene Azobenzene 4-Bromophenylphenyl ether Hexachlorobenzene Carbazole	SOP 2790 by solvent extraction and GCMS	A
	Moisture Content Stone Content Soil Description	SOP 2030 (at <30℃ and 105℃) Determination of Physical Properties of Soil Samples	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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	
	Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Vanadium Zinc	SOP 2455 by ICP-Mass Spectroscopy	A
	Loss on Ignition (550°C)	SOP 2610 using gravimetry	A
	Total Cyanide Free Cyanide Thiocyanate	SOP 2300 by Skalar SAN++ Continuous flow analyser	A
	TOC Soil Organic Matter (by calculation)	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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	
	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 Trichloromethane Vinyl Chloride 1,1,2 – Trichloroethane 1,1 – Dichloroethene 1,2,4 – Trichlorobenzene 1,2,4 – Trimethylbenzene 1,2 - Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Bromobenzene Bromodichloromethane Bromomethane Dibromomethane Isopropylbenzene MTBE Styrene o-Xylene m&p-Xylene Total-Xylenes trans 1,2-Dichloroethene Trichlorofluoromethane	SOP 2760 by Headspace GC-MS based on EPA 524.2:1992	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests and Physical Tests (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils	
	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 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)	A
	Polycyclic Aromatic Hydrocarbons (PAHs): Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,l]perylene Benzo[k]fluoranthene Chrysene Fluoranthene Fluorene Indeno[1,2,3]pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 14 above)	SOP 2800 by GC-MS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests and Physical Tests (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils	
	Total Petroleum Hydrocarbons C_8 - C_{40}	SOP 2670 by GC-FD (ISBN 011 752 2228:1988)	A
	Extractable Petroleum Hydrocarbons including fractionation and banding Aliphatic >C10-C12 Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Sum bands: Total Aliphatic >C10-C35	SOP 2690 by solvent extraction and GCxGC- FID	A
	Phenols: Resorcinol Phenol Methylphenols Dimethylphenols Trimethylphenols	SOP 2920 by HPLC	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests and Physical Tests (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils	
	Volatile Petroleum Hydrocarbons: >eC5-eC6 Aliphatic >eC6-eC7 Aliphatic >eC7-eC8 Aliphatic >eC8-eC10 Aliphatic >eC5-eC7 Aromatic >eC7-eC8 Aromatic >eC8-eC10 Aromatic Sum bands: >eC5-eC10 Aliphatic >eC5-eC10 Aromatic >eC5-eC10 Total VPH	SOP 2780 by solvent extraction and GCxGC- FID	A
	Moisture Content Stone Content Soil Description	SOP 2030 (at <30℃ and 105℃) Determination of Physical Properties of Soil Samples	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests and Physical Tests (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils	
	Polycyclic Aromatic Hydrocarbons (PAHs): Acenaphthene Acenaphthylene Anthracene Benxo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Indeo(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 16 above)	SOP 5003 by GC-MS Multi-extraction	A
	Polychlorinated biphenyls (PCBs): PCB-28 PCB-52 PCB-101 PCB-118 PCB-153 PCB-138 PCB-180 Total PCB (sum of 7 above)	SOP 5004 by GC-MS Multi-extraction	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOIL (cont'd)	Chemical Tests and Physical Tests (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard – soils	
	EPH (>C10-C35): Aliphatic > C8-C10 Aliphatic > C10-C12 Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Aromatic >eC8-eC10 Aromatic >eC10-eC12 Aromatic >eC12-eC16 Aromatic >eC16-eC21 Aromatic >eC21-eC35 Sum Bands: Total Aliphatic >C10-C35 Total Aromatic >eC10-eC35 Total EPH >C10-C35	SOP 5002 by GCxGC-FID by Multi-extraction	A
	TPH: TPH > C10-C40	SOP 5001 by GC-FID by Multi-extraction	A
	Benzene Toluene Ethylbenzene m/p-xylene o-xylene MTBE	SOP 5006 using Headspace with GCxGC-FID	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS	Chemical Tests	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	
Drinking water (non regulatory), Recreational Water, Groundwater, Surface Water and Laboratory Prepared Leachates	Electrical conductivity	SOP 1020 by Conductivity Meter (ISBN 011 751 428 4:1978)	A
Drinking water (non regulatory) Recreational Water, Groundwater, Surface Water 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (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	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 Benzene 1,2-Dichloroethane 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	SOP 1760 by Headspace GC-MS based on EPA 524.2:1992	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (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) 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 1,2,3-Trichlorobenzene	SOP 1760 by Headspace GC-MS based on EPA 524.2:1992	A
Laboratory Prepared Leachates	Polycyclic Aromatic Hydrocarbons (PAHs): Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,l]perylene Benzo[k]fluoranthene Dibenzo[a,h]anthracene Fluoranthene Fluorene Indeno[1,2,3]pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 15 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)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (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)	
Laboratory Prepared Leachates	Polycyclic 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 Indeno[1,2,3]pyrene Naphthalene Phenanthrene Pyrene Total PAH (sum of 16 above)	SOP 1800 by liquid/liquid extraction and GC-MS - based on Standard Methods for the Examination of Water and Waste Water' APHA. (ISBN 087 553 223 3:1995)	A
Ground Water and Laboratory Prepared Leachates	Resorcinol Phenol Cresols (methyl Phenols) Xylenols (dimethylphenols) Trimethylphenols	SOP 1920 by HPLC with Electrochemical Detection	A
Groundwater and Laboratory Prepared Leachates	Total Petroleum Hydrocarbons	SOP 1670 by GC-FID (ISBN 011 752 222 8:1988)	A
Groundwater and Leachates	Suphide	SOP 1325 by discrete colorimetric analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (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)	
Drinking water (non regulatory), Groundwater, Surface Water, Prepared Leachates, Process water (Ultra-Pure water), Recreational Water	Dissolved Metals only: Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Tin Vanadium Zinc	SOP 1455 by ICP-Mass Spectroscopy	A
Ground Water and Leachates	Chemical Oxygen Demand	SOP 1100 by Colorimetry	A
Drinking water (non regulatory) Process water (Ultra-Pure water), Recreational water, Ground Water and Leachates	Chloride Phosphate Sulphate	SOP 1220 by discrete colorimetric analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (cont'd)		
Ground Water and Leachates	Fluoride Nitrite Total Oxidised Nitrogen Alkalinity Ammonium Nitrate (by calculation)	SOP 1220 by discrete colorimetric analyser	A
Ground Water	Free Cyanide Total Cyanide Thiocyanate	SOP 1300by continuous flow analyser	A
Ground Water	Hexavalent chromium	SOP1495 by Ion chromatography with post column derivatisation	A
Surface waters, groundwaters, and Laboratory prepared leachates	Total Organic Carbon Dissolved Organic Carbon	SOP 1610 by Catalytic Oxidation and IR detection	A
Process waters, Ground waters, Prepared leachates, Surface waters, Non-regulatory drinking waters	Alkalinity Chloride Fluoride Nitrite Total Oxidised Nitrogen (TON) Phosphate Sulphate Ammonium Hexavalent Chromium Sulphide Nitrate (by calculation)	SOP4001 using discrete colorimetric analyser	A
Trade effluents	Alkalinity Chloride Fluoride Nitrite Total Oxidised Nitrogen (TON) Sulphate Ammonium Hexavalent Chromium Nitrate (by calculation)	SOP4001 using discrete colorimetric analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (cont'd)		
Recreational waters (natural)	Nitrite Total Oxidised Nitrogen (TON) Phosphate Ammonium Hexavalent Chromium Sulphide Nitrate (by calculation)	SOP4001 using discrete colorimetric analyser	A
WASTEWATERS	Chemical Tests and Physical Tests		
Trade 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	Electrical Conductivity	SOP 1020 by Conductivity Meter (ISBN 011 751 428 4:1978)	A
Trade Effluent to Controlled Water and Trade Effluent to Sewer Treated Sewage Effluent	Ammonium	SOP 1220 by discrete colorimetric analyser	A
Trade Effluent to Controlled Water and Trade Effluent to Sewer Treated Sewage Effluent	COD	SOP 1100 by Colorimetry	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Laboratory Prepared Leachates (single stage 10:1, & two stage 2:1 & 8:1)	<u>Chemical Tests</u>	Documented in-house methods Including Waste Acceptance Criteria Leachate Preparation to BS EN 12457-2:2002 (SOP 0650) BS EN 12457-3:2002 (SOP 0640)	
	Trace Metals & Cations: Aluminium Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Tin Vanadium Zinc	SOP 1455 by ICP-MS	A
	Phenols: Resorcinol Phenol Cresols (methyl Phenols) Xylenols (dimethylphenols) Trimethylphenols	SOP 1920 by HPLC	A
	Electrical Conductivity	SOP 1020 by conductivity meter	A
	Total Organic Carbon Dissolved Organic Carbon	SOP 1610 by Catalytic Oxidation and IR Detection	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Laboratory Prepared Leachates (single stage 10:1, & two stage 2:1 & 8:1)	<u>Chemical Tests</u>	Documented in-house methods Including Waste Acceptance Criteria Leachate Preparation to BS EN 12457-2:2002 (SOP 0650) BS EN 12457-3:2002 (SOP 0640)	
	Chloride Phosphate Sulphate Fluoride Nitrite Total Oxidised Nitrogen Alkalinity Ammonium Nitrate (by calculation	SOP 1220 by Discrete Analyser	A
Soil	Moisture Content Stone Content Soil Description	SOP 2030 (at 105℃). Determination of Physical Properties of Soil Samples	A
RECYCLED WASTE Trommel Fines	<u>Chemical Tests</u> Loss on Ignition at 440°C	Documented in house method SOP 2620 by Gravimetry in accordance with HMRC Excise Notice LFT1 27 March 2015	A
END			