


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2017</p>	Element Materials Technology Environmental UK Ltd	
	Issue No: 091 Issue date: 11 November 2024	
	Unit 3 and Unit 6 Deeside Point Zone 3 Deeside Industrial Park Deeside CH5 2UA	Contact: Jenny Davies Tel: +44 (0)1244 833780 Fax: +44 (0)1244 833781 E-Mail: Jenny.davies@element.com Website: www.element.com
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
<p>ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos</p>	<p><u>Health and Hygiene</u></p> <p>Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite</p>	<p>Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021</p> <p>Documented In-House Method TM065 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248</p>
<p>ASBESTOS IN SOILS – The Identification of Asbestos fibres in bulk samples of Soil, <i>specifically: Soil</i></p>	<p>Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite</p>	<p>Documented In-House Method PM042S and TM065 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248</p>
<p>ASBESTOS IN SOILS – The Identification and Quantification of Asbestos fibres in bulk samples of Soil, <i>specifically: Soil</i></p>	<p>Identification and Quantification of Asbestos content of: Amosite Chrysotile Crocidolite Fibrous Actinolyte Fibrous Anthophyllite Fibrous Tremolite</p>	<p>Documented In-House Method PM042S and TM065 for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248. Documented In-House Method PM042S and TM131 for quantification of asbestos.</p>



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<p>PETROLEUM and PETROLEUM PRODUCTS</p>	<p><u>Chemical Tests</u></p> <p>C5-C35 fingerprint (qualitative) and banding</p> <p>>C5-6 >C6-8 >C8-10 >C10-12 >C12-16 >C16-21 >C21-35 >C35</p> <p>Aliphatic/aromatic fractionation and subsequent banding:</p> <p>Aliphatic bands: >C6-C8 >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35+</p> <p>Aromatic bands (equivalent carbon EC): >C6-C8 >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35+</p>	<p>In-house method TM001P using GC-FID</p>



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<p>AIR Ambient Air/Soil Vapour</p>	<p>Volatile Organic Compounds:</p> <p>1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 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 Benzene Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform cis-1,2-Dichloroethene cis-1,3-Dichloropropene Ethylbenzene m&p - Xylenes Methylene Chloride o-Xylene Styrene Tetrachloroethene Toluene trans-1,3-Dichloropropene Trichloroethene Trichlorofluoromethane Trichlorotrifluoroethane Vinyl Chloride</p>	<p>In-house test method TM068G using preparation method PM 034, using Summa (Silco-can) canisters, Tedlar Bags, Bottle Vac and GC-MS based on USEPA TO15.</p>



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AIR (cont'd) Ambient Air	Volatile Organic Compounds 100 to 5000 pptv [equivalent to 0.1 to 5 ppbv]: 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 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 Benzene Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform cis-1,2-Dichloroethene Ethylbenzene m&p - Xylenes Methylene Chloride o-Xylene Styrene Tetrachloroethene Toluene Trichloroethene Trichlorofluoromethane Trichlorotrifluoroethane Vinyl Chloride	In-house test method TM205 using Summa (Silco-can) canisters and GC-MS detection



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<p>ATMOSPHERIC POLLUTANTS Collected on desorption tubes</p> <p>Tenax ATD tubes</p>	<p>Chemical Tests</p> <p>Diethyl ether Hexane 1-Chlorobutane Benzene 1,1-Dichloropropene Chloroacetonitrile Trichloroethene Dibromomethane Methyl methacrylate Bromodichloromethane cis-1,3-dichloropropen Toluene trans-1,3-dichloroprop 1,1,2-Trichloroethane 1,3-Dichloropropane Ethyl methacrylate Dibromochloromethane 1,2-Dibromoethane Tetrachloroethylene Chlorobenzene 1,1,1,2-tetrachloroeth Ethylbenzene M/P Xylene Bromoform Styrene O Xylene 1,1,2,2-Tetrachloroeth 1,2,3-Trichloropropane trans-1,4-dichloro-2-b Bromobenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butyl benzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene sec-Butylbenzene 1,4-Dichlorobenzene p-isopropyl toluene 1,2-Dichlorobenzene n-butyl benzene Hexachloroethane 1,2-dibromo-3-chloropr</p>	<p>In-house method TM 197G by Thermal Desorption GC-MS</p>



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ATMOSPHERIC POLLUTANTS Collected on desorption tubes (cont'd) Tenax ATD tubes	Chemical Tests (cont'd) Nitrobenzene 1,2,4-Trichlorobenzene Naphthalene 1,2,3-Trichlorobenzene Hexachlorobutadiene	In-house method TM 197G by Thermal Desorption GC-MS
SOILS	<u>Chemical Tests</u> Elements: Arsenic Barium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Zinc Water soluble boron Water Soluble Anions: Chloride Total Oxidised Nitrogen (TON) Sulphate Cyanide - Total	In-house method TM030S using PM 015S and PM 077S by ICP-OES In-house method TM074 using PM 032 and PM 077S by ICP-OES In-house method TM038 using PM 020S by discrete analyser In-house method TM089W/S using PM 045S by segmented flow analysis



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Extractable petroleum hydrocarbons (EPH) in the range: >C8-C40, including banding: >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35</p> <p>>C8-C10 >C10-C20 >C20-C30 >C30-C40</p> <p>>C7-C9 >C10-14 >C15-36</p> <p>Loss on ignition at 450 °C</p> <p>pH</p> <p>Total Sulphate</p> <p>BTEX Compounds benzene toluene ethylbenzene o-xylene m/p-xylene</p> <p>Polychlorinated Biphenyls (PCBs): PCB 28/31 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB 81 PCB 87</p>	<p>In house methods PM008S (end over end shake) fractionation by RapidTrace workstation PM016 followed by TM005S using GC-FID</p> <p>In-house method TM022S using PM 004S</p> <p>In house method TM073 using PM 011S using Metrohm robotic sample processor</p> <p>In-house method PM029S and PM 077 followed by TM050S using ICP-OES</p> <p>In House method TM152 including Methanol preservation (PM104) followed by Headspace GCMS</p> <p>In-house method TM017S using end over end shaker (PM 008) and GC-MS</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u> Polychlorinated Biphenyls (PCBs) (cont'd): PCB 123 PCB 114 PCB 105 PCB 126 PCB 167 PCB 156/157 PCB 169 PCB 189 Total PCBs (sum of above)</p> <p>Polycyclic Aromatic Hydrocarbons (PAHs): Naphthalene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b/j/k)fluoranthene Benzo(a)pyrene Indeno(123,cd)pyrene Dibenzo(ah)anthracene Benzo(ghi)perylene</p> <p>Phenols: Phenol m/p-Cresol o-Cresol Xylenols 2,3,5-Trimethylphenol 2-Isopropylphenol</p> <p>Solvent Extractable Matter</p> <p>Total Organic Carbon Total Carbon</p>	<p>In-house method TM017S using end over end shaker (PM 008) and GC-MS</p> <p>In-house method TM004S using end over end shake (PM008S) and GC-MS</p> <p>In-house method TM026 using solvent extraction (PM021S) and HPLC</p> <p>In-house method TM007S using PM 006S</p> <p>In-house method TM021S using PM 024S</p>



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SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> Volatile Organic Compounds Chloromethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Dichloromethane Trans-1,2-Dichloroethene 1,1-Dichloroethane Cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbontetrachloride 1,2-Dichloroethane Benzene Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane 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 Isopropylbenzene 1,1,2,2 Tetrachloroethane 1,2,3-Trichloropropane Propylbenzene 1,3,5-Trimethylbenzene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene 1,4-Dichlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene	In-house method TM015S using PM 010S by headspace GC-MS



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SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> MTBE Carbon Disulphide Hexavalent Chromium Semivolatile Organic Compounds: Phenol 2-Chlorophenol N-Nitrodi-n-propylamine Nitrobenzene Isophorone 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Hexachlorobutadiene 2-Methylnaphthalene 2-Chloronaphthalene Dimethylphthalate Dibenzofuran 4-Bromophenyl phenyl ether Phenanthrene Fluoranthene Pyrene	In House method TM038 using PM 020S using Aquachem Photometric Analyser In house method TM016S using PM 008 using GCMS analysis
SOILS	Poly Chlorinated Dibenzo-p-Dioxins PCDDs 2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD	Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206



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SOILS (cont'd) Leachate preparation (10:1)	<u>Chemical Tests (cont'd)</u> Poly Chlorinated Dibenzo Furans PCDFs 2,3,7,8-TCDF 1,2,3,7,8-PCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206
	Metals: Aluminium Ammonium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chloride Chromium Cobalt Copper	PM017S 10:1 leachate preparation based on BS EN 12457



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SOILS (cont'd) Leachate preparation (10:1) (cont'd)	<u>Chemical Tests (cont'd)</u> Metals (cont'd): Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite Phosphate Phosphorus Potassium Selenium Sodium Sulphate Vanadium Zinc	PM017S 10:1 leachate preparation based on BS EN 12457
WATERS Potable water (tap, non regulatory), Surface water and groundwater	<u>Chemical Tests</u> Volatile Organic Compounds (VOCs): Chloromethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Carbon Disulphide Dichloromethane Trans-1,2-Dichloroethene 1,1 - Dichloroethane Cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbontetrachloride 1,2-Dichloroethane Benzene Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane Toluene 1,1,2-Trichloroethane	In-house method PM010 and TM015W by headspace GC-MS



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<p>WATERS (cont'd)</p> <p>Potable water (tap non regulatory), Surface water and groundwater (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Volatile Organic Compounds (VOCs): (cont'd)</p> <p>Tetrachloroethene 1,3,-Dichloropropane Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m/p Xylene o Xylene Bromoform Isopropylbenzene Bromobenzene 1,2,3-Trichloropropane Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene Tert-Butylbenzene 1,2,4-Trimethylbenzene Sec-Butylbenzene 4-Isopropyltoluene 1,3- Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene MTBE Vinyl Chloride</p>	<p>In-house method PM010 and TM015W by headspace GC-MS</p>
<p>Potable water (tap non regulatory), Surface water and groundwater</p>	<p>Volatile Organic Compounds (VOCs):</p> <p>MTBE Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane Diethyl Ether 1,1-Dichloroethene Carbon Disulphide Acrylonitrile Trans-1,2-Dichloroethene 1,1 - Dichloroethane Cis-1,2-Dichloroethene</p>	<p>In-house method TM 128 using PM 115W by Purge and Trap GC-MS</p>



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<p>WATERS (cont'd)</p> <p>Potable water (tap non regulatory), Surface water and groundwater (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Volatile Organic Compounds (VOCs) (cont'd):</p> <p>Propionitrile</p> <p>Bromochloromethane</p> <p>1,1,1-Trichloroethane 1-Chlorobutane 1,1-Dichloropropene Carbontetrachloride 1,2-Dichloroethane Benzene Trichloroethene 1,2-Dichloropropane Dibromomethane Toluene Cis-1,3-Dichloropropene</p> <p>Trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m/p Xylene o Xylene Bromoform Isopropylbenzene 1,1,2,2 Tetrachloroethane Bromobenzene 1,2,3-Trichloropropane</p> <p>2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene Tert-butylbenzene 1,2,4-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene</p>	<p>In-house method TM 128 using PM 115W by Purge and Trap GC-MS</p>



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<p>WATERS (cont'd)</p> <p>Drinking Water (non-regulatory), Surface water and Ground water</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Determination of Per - and polyfluoroalkyl substances (PFAS), specifically:</p> <p>PFBA PFPeA PFBS PFHxA PFPeS PFHpA naDONA PFHxS PFOA PFHpS PFNA PFOS PFDA 9Cl-PF3ONS PFUnA</p>	<p>In-house method TM0135 using SPE preparation (PM122W) and LC-MS/MS</p>
<p>Drinking Water (non regulatory)</p>	<p>Determination of Per - and polyfluoroalkyl substances (PFAS), specifically:</p> <p>HFPO-DA</p>	<p>In-house method TM0135 using SPE preparation (PM122W) and LC-MS/MS.</p>



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WATERS (cont'd)	<u>Chemical Tests (cont'd)</u>	
Surface Water and groundwater	Phenols Cresols Xylenols	In-house method TM026 using PM 067W, using HPLC
Surface Water and groundwater	Hexavalent Chromium	In house method TM038 using PM 031W, by an Automated photometric Analyser
Surface Water and groundwater	Dissolved Gases: Ethane Ethene Methane	In house method TM025 using GC-TCD-FID
Potable water (non-regulatory), surface water and groundwater	Extractable petroleum hydrocarbons (EPH) including banding: >C10-C12 >C12-C16 >C16-C21 >C21-C35 Total EPH >C10-C40	In-house method TM005 by GC-FID using stir bar extraction (PM030W) and fractionation by RapidTrace workstation PM016
Potable water (non-regulatory), surface water and groundwater	And including aliphatic/aromatic fractionation and subsequent banding Aliphatic: >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35-C40 Total Aliphatic (>C10-C40) Aromatic (equivalent carbon EC): >C10-C12 >C12-C16 >C16-C21 >C35-C40 Total Aromatic (>C10-C40)	



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<p>WATERS (cont'd)</p> <p>Potable water (non-regulatory), surface water and groundwater</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Semi-Volatile Organic Compounds (SVOCs):</p> <p>1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4-Dichlorophenol 2,4-Dinitrotoluene 2-Chloronaphthalene 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol</p> <p>4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol 4-Chlorophenyl phenyl ether</p> <p>Acenaphthene Acenaphthylene Anthracene Azobenzene Benz[a]anthracene Benzo[b/k]fluoranthene Benzo[ghi]perylene Bis(2-Chloroethyl)ether Bis(2-chloroethoxy)methane Carbazole Chrysene Dibenz[a,h]anthracene Dibenzofuran Diethyl phthalate Di-n-Butyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Isophorone Napthalene Nitrobenzene N-Nitrodi-n-propylamine Phenanthrene Pyrene</p>	<p>In-house method TM016 using stir bar extraction (PM030W) followed by GC-MS analysis</p>



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<p>WATERS (cont'd)</p> <p>Drinking water (non regulatory tap water), Groundwater, Surface</p> <p>Water (river water), Prepared leachate, Trade effluent</p> <p>(phosphorus -excluding tap water and trade effluent)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Metals:</p> <p>Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Iron Lead Manganese Mercury Molybdenum Nickel Phosphorous Selenium Tin Vanadium Zinc</p>	<p>In house method PM017S based on BS EN 12457 (10:1 leachate preparation) and In house method TM170W using PM014W by ICP-MS</p>
<p>Surface water, groundwater and leachate from landfill</p>	<p>Extractable petroleum hydrocarbons (EPH) in the range: C8-C40</p> <p>Alkalinity</p>	<p>In-house method TM005 by GC-FID using stir bar extraction (PM030W)</p> <p>In house method TM075 using PM 031W using robotic sample processor</p>
<p>Surface water, groundwater and leachate from landfill (cont'd)</p>	<p>pH</p> <p>Electrical Conductivity at 25 °C</p>	<p>In house method TM073 using PM 031W using robotic sample processor</p> <p>In house method TM076 using PM 031W using robotic sample processor</p>



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

Element Materials Technology Environmental UK Ltd
Issue No: 091 **Issue date:** 11 November 2024

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>WATERS (cont'd)</p> <p>Surface water, groundwater, Tap water (non-regulatory) and prepared leachate</p> <p>Surface water, groundwater and leachate from landfill</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Total Organic Carbon Dissoved Organic Carbon Total Inorganic Carbon Dissolved Inorganic Carbon Total Carbon</p> <p>Biochemical Oxygen Demand (BOD)</p> <p>Biochemical Oxygen Demand (BOD)</p> <p>Polycyclic Aromatic Hydrocarbons (PAHs):</p> <p>Naphthalene Acenaphthene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Benzo(b/k)fluoranthene Benzo(a)pyrene Indeno(123,cd)pyrene Dibenzo(ah)anthracene Benzo(ghi)perylene Chrysene</p>	<p>In-house method TM060W by TOC analyser</p> <p>In house method TM058 using DO probe and meter</p> <p>In house method TM058 using Manometric Bottle top sensors</p> <p>In-house method TM004W using stir bar extraction (PM030W) and GC-MS</p>



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<p>WATERS (cont'd)</p> <p>Surface water, groundwater and leachate from landfill (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Gasoline Range Organics (GRO) and banding:</p> <p>MTBE Benzene Toluene Ethylbenzene o-xylene m/p-xylene Decane Dodecane Naphthalene</p> <p>>C5-C6 >C6-C8 >C5-C8 >C8-C10 >C8-C12</p>	<p>In-house method TM 036W using PM 012W using headspace GC-FID</p>
<p>Surface water, groundwater and leachate from landfill</p>	<p>Gasoline Range Organics (GRO) and banding:</p> <p>Total GRO >C5-C12 Also aliphatic/aromatic fractionation and subsequent banding: Aliphatic: C5-C6 >C6-C8 >C8-C10 Aromatic (equivalent carbon EC) >C5-C7 >C7-C8 >C8-C10</p>	<p>In-house method TM 036W using PM 012W using headspace GC-FID</p>



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WATERS (cont'd)	<u>Chemical Tests (cont'd)</u>	
Surface water, groundwater, leachate prepared from soils and leachate from landfill	Elements: Aluminium Antimony Arsenic Barium Cadmium Calcium Cobalt Chromium Copper Iron Lead Mercury Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium Sodium Vanadium Zinc	PM017S 10:1 leachate preparation based on BS EN 12457 In-house method TM 030W using PM 014W using ICP-OES
	Mercury	In house method TM061 using PM 031W using CVAFS
Surface water, groundwater, leachate prepared from soils and leachate from landfill	Ammonium Chloride Nitrate (derived) Nitrite Phosphate Sulphate	PM017S 10:1 leachate preparation based on BS EN 12457 In-house method TM038 using PM 031W using discrete analyser
	Total Solids Total Dissolved Solids	In-house method TM020W using PM 031W by Gravimetry
	Total Suspended Solids	In-house method TM037W using PM 031W by Gravimetry



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<p>WATERS (cont'd)</p> <p>Tap water (non regulatory) surface water, groundwater, leachate prepared from soils and leachate from landfill</p> <p>Surface Water Groundwater Potable Water (non regulatory) Trade Effluent</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Cyanide - Total and Free</p> <p>Poly Chlorinated Dibenzo-p-Dioxins PCDDs</p> <p>2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD</p> <p>Poly Chlorinated Dibenzo Furans PCDFs</p> <p>2,3,7,8-TCDF 1,2,3,7,8-PCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF</p>	<p>In-house method TM089W/S using PM 031W by segmented flow analysis</p> <p>Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM146 GC-HRMS TM215W</p> <p>Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM146 GC-HRMS TM215W</p>



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<p>WATERS (cont'd)</p> <p>Drinking water (non regulatory), groundwater, surface water and trade effluent</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Polychlorinated Biphenyls (PCBs):</p> <p>PCB 28 PCB 52 PCB 101 PCB 81 PCB 77 PCB 123 PCB 118 PCB 114 PCB 157 PCB 105 PCB 153 PCB 126 PCB 167 PCB 138 PCB 156 PCB 180 PCB 169 PCB 189</p> <p>Settled Chemical Oxygen Demand</p>	<p>PCB Congeners by in house method TM017W using stir bar extraction (PM030W) and GC-MS analysis.</p>
<p>Landfill leachate and leachate prepared from soil</p>	<p>Elements:</p> <p>Boron Beryllium</p>	<p>In-house method TM057W by spectrophotometry</p> <p>PM017S 10:1 leachate preparation based on BS EN 12457 In-house method TM030W using ICP-OES</p>
<p>Surface Water and Ground Water</p>	<p>Tert-Amyl methyl ether (TAME) Diisopropylether(DIPE) Ethyl-tert-butyl ether (ETBE)</p>	<p>In-house method TM083 by preparation method PM 039W and using Headspace GCMS</p>



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MARINE SEDIMENTS	<u>Chemical Tests</u> Determination of aqua regia extractable metals: As, Cd, Cr, Cu, Pb, Hg, Ni & Zn Total Organic Carbon (TOC)	In-house method T203S by ICP-MS In-house method TM021S using furnace methodology
SOILS	<u>Chemical Tests (cont'd)</u> Gasoline Range Organics (GRO) and banding: >C4-C8 >C8-C12 >C5-C6 >C6-C8 >C8-C10 >C10-C12 Total GRO C4-C12 Total GRO C5-C12 MTBE benzene toluene ethylbenzene o-xylene m/p-xylene	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil In-house method TM 036S using PM 012S by headspace GC-FID



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Gasoline Range Organics (GRO) and banding: (cont'd)</p> <p>Also aliphatic/aromatic fractionation and subsequent banding: Aliphatic: >C5-C6 >C6-C8 Aromatic (equivalent carbon EC): >C6-C8 >C8-C10</p> <p>Extractable petroleum hydrocarbons (EPH) in the range: C8-C40 Diesel range organics (DRO) C25-C40 range organics - lubricating oil</p> <p>Extractable petroleum hydrocarbons (EPH) in the range: >C8-C40, including banding: >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35</p> <p>>C8-C10 >C10-C20 >C20-C30 >C30-C40</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)</p> <p>In-house method TM 036S using PM 012S by headspace GC-FID (cont'd)</p> <p>In-house methods PM008S (end over end shake) followed by TM005S using GC-FID</p> <p>In house methods PM008S (end over end shake) fractionation by RapidTrace workstation PM016 followed by TM005S using GC-FID</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Extractable petroleum hydrocarbons (EPH) (cont'd)</p> <p>And including aliphatic/aromatic fractionation and subsequent banding: Aliphatic: >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35-C40</p> <p>Polycyclic Aromatic Hydrocarbons (PAHs):</p> <p>Naphthalene Acenaphthene Fluorene Phenanthrene Fluoranthene Chrysene Benzo(b/k)fluoranthene Indeno(123,cd)pyrene</p> <p>Phenols: Phenol m/p-Cresol o-Cresol Xylenols 2,3,5-Trimethylphenol 2-Isopropylphenol</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)</p> <p>In house methods PM008S (end over end shake) fractionation by RapidTrace workstation PM016 followed by TM005S using GC-FID (cont'd)</p> <p>In-house method TM004S using end over end shake (PM008S) and GC-MS</p> <p>In-house method TM026 using solvent extraction (PM021S) and HPLC</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Elements: Arsenic Barium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Zinc</p> <p>Water soluble boron</p> <p>Water Soluble Anions: Chloride Sulphate</p> <p>Cyanide - Total</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)</p> <p>In-house method TM030S using PM 015S and PM 077S by ICP-OES</p> <p>In-house method TM074 by PM 015S and PM 077S by ICP-OES</p> <p>In-house method TM038 by PM 020S by discrete analyser</p> <p>In-house method TM089W/S by PM 045S by segmented flow analysis</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Polychlorinated Biphenyls (PCBs):</p> <p>PCB 81 PCB 77 PCB 123 PCB 118 PCB 114 PCB 105 PCB 126 PCB 167 PCB 156/157 PCB 169 PCB 189 PCB 28 PCB 52 PCB 101 PCB 153 PCB 138 PCB180</p> <p>pH</p> <p>Total Sulphate</p> <p>Volatile Organic Compounds:</p> <p>MTBE Chloroethane Trichlorofluoromethane 1,1-Dichloroethene 1,1 - Dichloroethane Cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Benzene Trichloroethene</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)</p> <p>PCB Congeners by in house method TM017S using Preparation method PM008S and GC-MS analysis.</p> <p>In-house method TM073 using PM 011S by Metrohm robotic sample processor</p> <p>In-house method PM029S followed by TM050S using ICP-OES</p> <p>In-house method TM015S by PM 010S by headspace GC-MS</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Volatile Organic Compounds (cont'd):</p> <p>1,2-Dichloropropane Dibromomethane Bromodichloromethane Toluene 1,1,2-Trichloroethane 1,3,-Dichloropropane Dibromochloromethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m/p Xylene o Xylene 1,1,2,2 Tetrachloroethane 1,2,3-Trichloropropane 1,3- Dichlorobenzene 1,2-Dichlorobenzene</p> <p>Semivolatile Organic Compounds</p> <p>Phenol 2-Chlorophenol N-Nitrodi-n-propylamine Nitrobenzene Isophorone 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Hexachlorobutadiene 2-Methylnaphthalene 2-Chloronaphthalene Dimethylphthalate Dibenzofuran 4-Bromophenyl phenyl ether Phenanthrene Fluoranthene Pyrene</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil (cont'd)</p> <p>In house method TM016S using PM 008 S by GCMS analysis</p>



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES	<u>Chemical Tests</u>	National, European, International and Environment specified standards including MIDs and documented in-house methods to meet the requirements of the Environment Agency (MCERTS) performance standard for laboratories carrying out testing of samples from stack emissions monitoring
Filters, probe and impinger rinses (Acetone, toluene and water), XAD-2 resin traps	Poly Chlorinated Dibenzo-p-Dioxins PCDDs 2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD	BS EN 1948-2:2006 and BS EN 1946-3:2006 Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM137 GCHRMS TM201
Filters, probe and impinger rinses (Acetone, toluene and water), XAD-2 resin traps	Poly Chlorinated Dibenzo Furans PCDFs 2,3,7,8-TCDF 1,2,3,7,8-PCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	BS EN 1948-2:2006 and BS EN 1946-3:2006 Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM137 GCHRMS TM201



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<p>ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES (Cont'd)</p> <p>Filters, probe and impinger rinses (Acetone, toluene and water), XAD-2 resin traps</p>	<p><u>Chemical Tests (Cont'd)</u></p> <p>Polychlorinated Biphenyls PCB</p> <p>Congener 77 Congener 81 Congener 105 Congener 114 Congener 118 Congener 123 Congener 126 Congener 156 Congener 157 Congener 167 Congener 169 Congener 189</p>	<p>National, European, International and Environment specified standards including MIDs and documented in-house methods to meet the requirements of the Environment Agency (MCERTS) performance standard for laboratories carrying out testing of samples from stack emissions monitoring</p> <p>BS EN 1948-4:2010+A1:2013 Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS)</p> <p>Extraction PM137 GCHRMS TM201</p>
<p>ASH</p>	<p>Poly Chlorinated Dibenzo-p-Dioxins PCDDs</p> <p>2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD</p>	<p>Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206</p>



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<p>ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES (Cont'd)</p> <p>ASH</p>	<p><u>Chemical Tests (Cont'd)</u></p> <p>Poly Chlorinated Dibenzo Furans PCDFs</p> <p>2,3,7,8-TCDF 1,2,3,7,8-PCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF</p> <p>Polychlorinated Biphenyls PCB</p> <p>Congener 77 Congener 81 Congener 105 Congener 114 Congener 118 Congener 123 Congener 126 Congener 156 Congener 157 Congener 167 Congener 169 Congener 189</p>	<p>Documented In-house methods based on EPA 1613. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206</p> <p>Documented In-house methods based on EPA 1668. Extraction followed by High Resolution Gas Chromatography High Resolution Mass Spectrometry (GC-HRMS) Extraction PM139 GC-HRMS TM206</p>
END		