


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 1668</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Marchwood Scientific Services Limited (a trading division of Cawood Scientific)</p> <p>Issue No: 090 Issue date: 26 February 2026</p>	
	<p>371 Millbrook Road West Southampton SO15 0HW</p>	<p>Contact: Paul Harrington Tel: +44 (0) 23 8078 6979 E-Mail: paul.harrington@cawood.co.uk Website: www.cawood.co.uk/marchwood</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 371 Millbrook Road West Southampton SO15 0HW</p> <p>Local contact Paul Harrington Tel: +44 (0)23 8078 6979 Email: paul.harrington@cawood.co.uk</p>	<p>Testing: Environmental Testing Stack Emissions Testing Food Testing Feed Testing</p> <p>Support Functions: Quality System Quality Audit administration Sample Reception</p>	A
<p>Address Unit 5 60 Smithfold Lane Worsley Manchester M28 0GP</p> <p>Local contact Paul Harrington Tel: +44 (0)23 8078 6979 Email: paul.harrington@cawood.co.uk</p>	<p>Support Functions: Sample Reception Air testing</p>	B



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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
ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Chemical Tests</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions 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 trap and tubes	<u>Poly Chlorinated Dibenzo-p-Dioxins (PCDD)</u> 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 1948-3:2006 Gas Chromatography (GC) High Resolution Mass Spectrometry (MS) by labelled internal Standards (in house method 2002b) following extraction 2043 cleanup by 2044	A
	<u>Poly Chlorinated Dibenzo Furans (PCDF)</u> 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF		A



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Chemical Tests (cont'd)</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions 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 trap and tubes	<u>Poly Brominated Dibenzo-p-Dioxins (PBDD)</u> <u>2,3,7,8-TetraBDD</u> <u>1,2,3,7,8-PeBDD</u> <u>1,2,3,4,7,8-HxBDD</u> <u>1,2,3,6,7,8-HxBDD</u> <u>1,2,3,7,8,9-HxBDD</u> <u>1,2,3,4,6,7,8-HpBDD</u> <u>OctaBDD</u>	BS EN 1948-2:2006, and BS EN 1948-3:2006 Pressurised Solvent Extraction (PSE) and Gas Chromatography (GC) High Resolution Mass Spectrometry (MS) by labelled internal Standards (in house method MB-016-WI) following extraction MB-013-WI	A
Filters, probe and impinger rinses (acetone, toluene, and water), XAD-2 resin trap and tubes	<u>Poly Brominated Dibenzo Furans (PBDF)</u> <u>2,3,7,8-TetraBDF</u> <u>1,2,3,7,8-PeBDF</u> <u>2,3,4,7,8-PeBDF</u> <u>1,2,3,4,7,8-HxBDF</u> <u>1,2,3,6,7,8-HxBDF</u> <u>1,2,3,4,6,7,8-HpBDF</u> <u>OctaBDF</u>	BS EN 1948-2:2006, and BS EN 1948-3:2006 Pressurised Solvent Extraction (PSE) and Gas Chromatography (GC) High Resolution Mass Spectrometry (MS) by labelled internal Standards (in house method MB-016-WI) following extraction MB-013-WI	A



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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 trap and tubes</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p><u>Poly Chlorinated Biphenyls (PCB's)</u></p> <p>PCB-77 PCB-81 PCB-105 PCB-114 PCB-118 PCB-123 PCB-126 PCB-156 PCB-157 PCB-167 PCB-169 PCB-189</p>	<p>National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions 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 Analysis by in-house method 2002b by High Resolution Gas Chromatography Mass Spectrometry (GC/MS) following extraction 2043/ cleanup by 2044 (and in accordance with BS EN 1948-4:2010)</p>	<p>A</p>



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES (cont'd)	<u>Chemical Tests</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions 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 trap and tubes	<u>Polycyclic Aromatic Hydrocarbons (PAH's)</u> Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(b)naphtho[2,1-d]thiophene Benzo(c)phenanthrene Benzo(a)anthracene Chrysene Cyclopenta(cd)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(j)fluoranthene Benzo(a)pyrene Cholanthrene Indeno(1,2,3-cd)pyrene Benzo(ghi)perylene Dibenzo(ah)anthracene Anthanthrene Dibenzo(ai)pyrene	BS ISO 11338-2:2003 Analysis by in-house method 2003 by Gas Chromatography Mass Spectrometry (GC/MS - QQQ) WI2003, following extraction WI1115 and cleanup by WI2016	A



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES (cont'd)	<u>Chemical Tests</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring	
Charcoal tubes	Speciated VOCs 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,3 Trimethylbenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene <u>1-Methoxy-2-propylacetate</u> Benzene Bromochloromethane Bromodichloromethane Bromoform	Documented in house method WI 3048 by GC-MS (solvent desorption) based on PD CEN/TS 13649:2014 & BS ISO 16200-1:2001	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Chemical Tests</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring	
Charcoal tubes	Speciated VOCs (cont'd) Butyl acetate Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroform cis-1,2-Dichloroethene Dibromomethane Ethylbenzene <u>Ethyl Acetate</u> Hexane <u>Isopropyl Acetate</u> Isopropyl benzene <u>Methyl ethyl ketone (MEK)</u> <u>Methyl iso butyl ketone (MIBK)</u> <u>Methyl tert-butyl ether(MTBE)</u> m/p-Xylene o-Xylene p-Isopropyl toluene <u>Propyl acetate</u> Propyl benzene Toluene trans-1,2-Dichloroethene <u>Tetrachloroethene</u>	Documented in house method WI 3048 by GC-MS (solvent desorption) based on PD CEN/TS 13649:2014 & BS ISO 16200-1:2001	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Chemical Tests</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring	
Impinger Solutions (sulphuric acid)	Ammonia	BS EN ISO 21877:2019 by IC analysis (MCR-002-WI)	B
Impinger Solutions (sulphuric acid)	Hydrogen bromide	US EPA Method 26 by IC analysis (MCR-003-WI)	B
Impinger Solutions (sodium hydroxide)	Bromine Chlorine	US EPA Method 26 by IC analysis (MCR-003-WI)	B
Impinger Solutions (sodium hydroxide)	Hydrogen fluoride	PD CEN/TS 17340:2020 by IC analysis (MCR-003-WI)	B
Impinger Solutions (water)	Hydrogen chloride	BS EN 1911:2010 by IC analysis (MCR-003-WI)	B
Impinger Solutions (water)	Hydrogen fluoride	PD CEN/TS 17340:2020 by IC analysis (MCR-003-WI)	B
Impinger Solutions (Hydrogen Peroxide)	Sulphur dioxide	BS EN 14791:2017 by IC analysis (MCR-007-WI)	B
	<u>Physical Testing</u>		
Filter Papers and Rinse Solutions	Weighing of Particulate Matter	BS EN 13284-1:2017 (MCR-005-WI)	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Chemical Tests</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring	
Filters, probe rinses (nitric acid), impinger solutions (nitric acid / hydrogen peroxide)	Metals specifically: Arsenic Beryllium Cadmium Cobalt Chromium Copper Manganese Nickel Lead Antimony Selenium Tin Titanium Thallium Vanadium Zinc	BS EN 14385:2024 by microwave and HF digestion followed by ICP-MS analysis (MCR-001-WI)	B
Filters, probe rinses (nitric acid), impinger Solutions (sulphuric acid/potassium permanganate, nitric acid/potassium dichromate)	Mercury	BS EN 13211:2001 and BS EN 1483:2007 [withdrawn] by microwave and HF digestion followed by: CV-AFS analysis (MCR-004-WI)	B



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ASH DUST EFFLUENT FOLIAGE SLUDGE SOILS Inorganic compounds used as ingredients in animal feeds and food Oils and grain as ingredients in animal feeds and food ANIMAL FEED, FOODS and FATTY FOODS (including fish, meat, dairy products, eggs)	<u>Poly Chlorinated Dibenzo-p-Dioxins (PCDD)</u> 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 <u>Poly Chlorinated Dibenzo Furans (PCDF)</u> 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	Documented in-house Method 2002 / 2002a, based on US EPA Method 1613. Gas Chromatography (GC) - High Resolution Mass Spectrometry (MS) by Labelled Internal Standards Following extraction by WI 3 2043/cleanup by 2044 for effluents, 2001 or 2005 and 2044 for foods, 1102 for solid foods/feed samples, 2042 for dairy and egg, 2043 and 2044 for 2,4D and 1102/2043 and 2044 for other sample types	A



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	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards	
ASH DUST EFFLUENT FOLIAGE SLUDGE SOILS Inorganic compounds used as ingredients in animal feeds and food Oils and grain as ingredients in animal feeds and food FOODS and FATTY FOODS (including fish, meat, dairy products, eggs)	<u>Poly Chlorinated Biphenyls (PCB's)</u> PCB-28 PCB-52 PCB-77 PCB-81 PCB-101 PCB-105 PCB-114 PCB-118 PCB-123 PCB-126 PCB-138 PCB-153 PCB-156 PCB-157 PCB-167 PCB-169 PCB-180 PCB-189	Documented In-House Method 2002 / 2002a by High Resolution Gas Chromatography Mass Spectrometry (GC/MS) following extraction 2043/cleanup by 2044 for effluents, 2001 or 2005 and 2044 for foods, 2042 for dairy and egg, and 1102/2043 and 2044 for other sample types	A
Fish oil	<u>Polycyclic aromatic hydrocarbons (PAHs)</u> Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(g,h,i)perylene Chrysene Dibenz(a,h)anthracene Indeno(1,2,3,c,d)pyrene	Documented in house method WI-3051 by gas chromatography-high resolution mass spectrometry (GC-HRMS)	A



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Fish oil	<p><u>Chemical Tests</u> (cont'd)</p> <p>PAH4 (sum of Benzo(a)pyrene, Chrysene, Benz(a)anthracene, benzo(b)fluoranthene)</p> <p>PAH8 (sum of Benzo(a)pyrene, Chrysene, Benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene)</p>	<p>Documented In-House Methods based on the following national, international and other recognised standards</p> <p>Documented in house method WI-3051 by gas chromatography-high resolution mass spectrometry (GC-HRMS)</p>	A



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards	
Filters, probe and impinger rinses (acetone, toluene, and water), XAD-2 resin trap and tubes	<u>Poly Chlorinated Dibenzo-p-Dioxins (PCDD)</u> 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 1948-3:2006 or US EPA Method 23 or, for PU Filters only, US EPA Method 1613 Gas Chromatography (GC) High Resolution Mass Spectrometry (MS) by labelled internal Standards (in house method 2002 / 2002a) following extraction 2043 cleanup by 2044	A
Polyurethane Foams	<u>Poly Chlorinated Dibenzo Furans (PCDF)</u> 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-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 1948-3:2006 or US EPA Method 23 Gas Chromatography (GC) High Resolution Mass Spectrometry (MS) by labelled internal Standards (in house method 2002 / 2002a) following extraction 2043/ cleanup by 2044	A
Air, sampled onto DNPH treated silica gel adsorption tubes	<u>Determination of mass of Carbonyl Compounds in Air:</u> Formaldehyde Acetaldehyde Propionaldehyde Crotonaldehyde Butyraldehyde Benzaldehyde Isovaleraldehyde Valeraldehyde Hexaldehyde 2,5 -Dimethylbenzaldehyde	Documented Method MSSL WI 3044. Based on BS ISO 16000-3:2011 & MDHS 102 by HPLC-UV	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards	
Filters, probe and impinger rinses (acetone, toluene, and water), XAD-2 resin trap and tubes	<u>Poly Chlorinated Biphenyls (PCB's)</u>	BS EN 1948-4:2010 Analysis by in-house method 2002 / 2002a by High Resolution Gas Chromatography Mass Spectrometry (GC/MS) following extraction 2043/ cleanup by 2044 (and in accordance with BS EN 1948-4:2010 for PU filters)	A
Polyurethane Foams	PCB-28 PCB-52 PCB-77 PCB-81 PCB-101 PCB-105 PCB-114 PCB-118 PCB-123 PCB-126 PCB-138 PCB-153 PCB-156 PCB-157 PCB-167 PCB-169 PCB-180 PCB-189		
Air, sampled onto charcoal sorbent	<u>Siloxanes:</u> Hexamethyldisiloxane Hexamethylcyclotrisiloxane Octamethyltrisiloxane Octamethylcyclotetrasiloxane Decamethyltetrasiloxane Decamethylcyclopentasiloxane Dodecamethylpentasiloxane Dodecamethylcyclohexasiloxane	Documented in house method 3038 by GC-MS based on PD CEN/TS 13649:2014	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards	
Air, sampled onto charcoal sorbent	<u>Speciated VOCs</u> Ethanol, Acetone, Isopropyl Alcohol, Metyl tert-butyl ether, Hexane, 2-Butanone, Ethyl acetate, Isobutanol, Isopropyl acetate, Benzene, 1-Butanol, 1-Methoxy-2-propanol, Propyl acetate, 4-Methyl-2-pentanone, Toluene, 1-Methoxy-2-propyl acetate, Ethylbenzene, m/p-Xylene, o-Xylene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 1,2,3-Trimethylbenzene	Documented in house method WI 3042 by GC-MS	B
Air, sampled onto charcoal sorbent	<u>Speciated VOCs</u> 1,1-Dichloroethene 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2,4-Trimethylbenzene 1,2-Dibromomethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzene	Documented in house method WI 3048 by GC-MS (solvent desorption) based on PD CEN/TS 13649:2014 & BS ISO 16200-1:2001	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES (cont'd) Air, sampled onto charcoal sorbent (cont'd)	<u>Chemical Tests</u> (cont'd) <u>Speciated VOCs</u> (cont'd) Bromochloromethane Bromodichloromethane Bromoform Butylbenzene Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroform cis-1,2-Dichloroethene Dibromomethane Dichloromethane (DCM) Ethylbenzene Isopropylbenzene m/p-Xylene o-Xylene p-Isopropyltoluene Propylbenzene Toluene trans-1,2-Dichloroethene	Documented In-House Methods based on the following national, international and other recognised standards Documented in house method WI 3048 by GC-MS (solvent desorption) based on PD CEN/TS 13649:2014 & BS ISO 16200-1:2001	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS – GAS SAMPLES (cont'd) Air, sampled onto Tenax/Sulficarb - ambient air - landfill gas	<u>Chemical Tests</u> (cont'd) <u>Speciated VOCs</u> 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromomethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Butadiene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 1-Pentene 2,2 Dichloropropane 2-Butoxyethanol 2-Chlorotoluene 3-Chloro-1,2-dibromopropane 4-Chlorotoluene Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Butanethiol Butylbenzene Butyric acid Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chloroform cis-1,2-Dichloroethene cis-1,3-Dichloropropene	Documented In-House Methods based on the following national, international and other recognised standards Documented in house method WI 3047 by GC-MS (thermal desorption) based on MDHS72 (1993), LFTGN04 v 3.0 2010, , BS ISO 16000-6:2021, BS EN ISO 16017-1:2001 & PD CEN/TS 13649:2014	B



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Schedule of Accreditation
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United Kingdom Accreditation Service
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Marchwood Scientific Services Limited
Issue No: 090 Issue date: 26 February 2026

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>ATMOSPHERIC POLLUTANTS AND EFFLUENTS – GAS SAMPLES (cont'd)</p> <p>Air, sampled onto Tenax/Sulficarb - ambient air - landfill gas (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p><u>Speciated VOCs</u></p> <p>Dibromomethane Dimethyldisulphide Ethylbenzene Ethylbutyrate Furan Hexachloro-1,3-butadiene Isopropylbenzene m/p-Xylene Naphthalene o-Xylene p-Isopropyltoluene Propanethiol Propylbenzene sec-Butylbenzene Styrene tert-Butylbenzene Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene Trichloroethylene Tetrachloroethene</p>	<p>Documented In-House Methods based on the following national, international and other recognised standards</p> <p>Documented in house method WI 3047 by GC-MS (thermal desorption) based on MDHS72 (1993), LFTGN04 v 3.0 2010, , BS ISO 16000-6:2021, BS EN ISO 16017-1:2001 & PD CEN/TS 13649:2014</p>	B
<p>Collected in Tedlar bags Ambient air Landfill gas Syngas</p>	<p><u>Bulk gas components</u></p> <p>Hydrogen (100ppm to 100%) Methane (100ppm to 100%) Oxygen (0.3% to 100%) Nitrogen (1.0% to 100%) Carbon monoxide (100ppm to 100%) Carbon dioxide (100ppm to 100%)</p>	<p>Documented in house method WI 3046 by GC-TCD</p>	B
<p>Air, sampled onto charcoal sorbent - landfill gas - Biogenic gas</p>	<p>Arsenic</p>	<p>Documented in house method WI 3054 by ICP-OES</p>	B
<p>Air sampled onto molecular sieve tubes</p>	<p>Nitrous Oxide (N₂O)</p>	<p>Documented in house method MCR-010-W1 by TD-GCMS</p>	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS – GAS SAMPLES (cont'd)	<u>Chemical Tests (cont'd)</u>	Documented In-House Methods based on the following national, international and other recognised standards	
Workplace Atmospheres - Filters	Particulate matter	Documented in house method WI 3045 based on MDHS 14/4, PD CEN/TR 15230:2005 and BS ISO 15767:2009	B
Workplace Atmospheres: Filters PUFs (Polyurethane foams from IOM cartridges)	Metals, specifically: Aluminium Arsenic Barium Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Magnesium Manganese Molybdenum Sodium Nickel Lead Antimony Selenium Tin Strontium Titanium Thallium Vanadium Zinc	Documented in house method WI 3054 by ICP-OES	B
Filters	Respirable crystalline silica (quartz and cristobalite)	Documented in-house method MCR-006-WI based on MDHS101/2 by X-ray diffraction (XRD)	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS –STACK GAS SAMPLES	<u>Chemical Tests (cont'd)</u>	Documented In-House Methods based on the following national, international and other recognised standards	
Impinger Solutions (sulphuric acid)	Hydrogen bromide Hydrogen chloride Hydrogen fluoride	US EPA Method 26 by IC analysis (MCR-003-WI)	B
Impinger Solutions (sodium hydroxide)	Chlorine Bromine	US EPA Method 26 by IC analysis (MCR-003-WI)	B
Impinger Solutions (sodium hydroxide)	Hydrogen fluoride	In house method based on BS ISO 15713:2006 by IC analysis (MCR-003-WI)	B
Impinger Solutions (water)	Hydrogen fluoride	PD CEN/TS 17340:2020 by IC analysis (MCR-003-WI)	B
Impinger Solutions (water)	Hydrogen chloride	BS EN 1911:2010 by IC analysis (MCR-003-WI)	B
Impinger Solutions (water)	Hydrogen bromide	In house Method by IC analysis (MCR-003-WI)	B
WATERS			
Potable Water (non regulatory), Surface Waters and Ground Water	Poly and Perfluorinated Alkyl Substances (PFAS), specifically: PFMOPrA PFPeA FPrPA PFBS PFMOBA PFEESA NFDHA 4:2 FTS PFHxA PFPeS	In-house test method MB-009-WI based on EPA Method 1633 & EPA method 537.1 Rev.2 by LCMSMS	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Potable Water (non regulatory), Surface Waters and Ground Water	<u>Chemical Testing (cont'd):</u> Poly and Perfluorinated Alkyl Substances (PFAS), specifically: HFPO-DA FBSA PFHpA PFHxS ADONA FPePA PFECHS 6:2 FTS PFOA PFHpS FHxSA PFOS PFNA FHpPA HFPO-TA 9CI-PF3ONS PFNS 8:2 FTS PFDA MeFOSAA PFDS PFUdA EtFOSAA FOSA 11CI-PF3OUdS PFUdS PFDoA 10:2 FTS PFDoS PFTrDA PFTeDA PFHxDA 8:2-diPAP	In-house test method MB-009-WI based on EPA Method 1633 & EPA method 537.1 Rev.2 by LCMSMS	A
END			