Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

4279

Accredited to ISO/IEC 17025:2017

Element Materials Technology Environmental UK Limited trading as Element

Issue No: 079 **Issue date:** 27 January 2026

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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: Element Unit C6 Emery Court The Embankment Business Park Heaton Mersey Stockport SK4 3GL	**Local contact** Mr Phil Waters Tel: +44 (0)161 432 3286 Mobile: +44 (0)7811 106816 Fax: +44 (0)161 432 3689 Email: phil.waters@element.com Website: www.element.com	**Support Functions:** Quality System Quality Audit Administration Internal Calibration **Sampling and Testing:** Physical Testing Environmental Chemistry	OS
Address: Element Unit C6 Emery Court The Embankment Business Park Heaton Mersey Stockport SK4 3GL	**Local contact** Mr Scott Pilkington Tel: +44 (0)161 432 3286 Mobile: +44 (0)7825 991537 Fax: +44 (0)161 432 3689 Email: Scott.pilkington@element.com Website: www.element.com	**Support Functions:** Administration **Sampling and Testing:** Stack Emissions Testing	EST
Address: Element Shields Road Newcastle Upon Tyne Tyne & Wear NE6 2YD	**Local contact** Mr Mark Elliott Tel: +44 (0) 141 941 2022 Mobile: +44 (0)7860 925746 Fax: +44 (0) 141 952 7099 Email: mark.elliott@element.com Website: www.element.com	**Support Functions:** Internal Calibration	ENE

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Testing performed by the Organisation at the locations specified

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer Sites requiring Stack Emissions Testing	Stack Emissions Testing	EST
Customer Landfill Sites requiring sampling	Sampling Landfill Gases	EST

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere	Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory	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 and BS EN 15259:2007	
	Total Particulate Matter	BS EN 13284-1:2017 (MD-001)	EST
	Particulate Matter <10 micron (PM_{10} and $PM_{2.5}$)	BS EN ISO 23210:2009 (MD-018)	EST
	Odour (direct sampling of dry stacks and dynamic dilution sampling of hot wet stacks)	BS EN 13725:2022 (MD 030)	EST
	Oil mist, Tar and bitumen fume	BS EN 13284-1:2017 & MDHS 84 (MD-037)	EST
	Hydrogen Chloride	BS EN 1911:2010 (MD-011)	EST
	Hydrogen Fluoride Particulate and gaseous fluoride	PD CEN/TS 17340:2020 (MD-010)	EST
	Sulphur Dioxide	BS EN 14791:2017 (MD-009)	EST
	Ammonia	BS EN ISO 21877:2019 (MD-014)	EST
	Hydrogen Sulphide	US EPA Method 11 (MD-015)	EST
	Hydrogen Cyanide	US EPA OTM 029 (MD-012)	EST
	Sulphuric Acid (Sulphuric acid mist & Sulphur Trioxide)	US EPA Method 8 (MD-042)	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere (cont'd)	Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory (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 and BS EN 15259:2007	
	Halides and Halogens Hydrogen Bromide Chlorine Bromine	US EPA Methods 26 and 26a (MD-013)	EST
	Metals	BS EN 14385:2024 (MD-006)	EST
	Mercury	BS EN 13211:2001 (MD-006)	EST
	Hexavalent chromium in fine particulate matter <10 micron (PM_{10} and $PM_{2.5}$)	BS EN ISO 23210:2009 (MD-018)	EST
	Dioxins and Furans	BS EN 1948-1:2006 (MD-007)	EST
	Dioxin-like Polychlorinated Biphenyls (PCBs)	BS EN 1948-4:2010 (MD-007)	EST
	Polycyclic Aromatic Hydrocarbons (PAHs)	BS ISO 11338-1:2003 (MD-008)	EST
	Per and Polyfluorinated Alkyl Substances (PFAS)	US EPA OTM 045 (MD-043) Filter/condenser method	EST
	Volatile Fluorinated Compounds (including PFAS)	US EPA OTM-050 (MD-044) Canister method (direct sampling, stack moisture is ≤3% v/v and acid gases are not present)	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere (cont'd)	Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory (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 and BS EN 15259:2007	
	Volatile Fluorinated Compounds (including PFAS)	US EPA OTM 050 (MD-044) Canister method (water/acid gas management method)	EST
	Isocyanates	US EPA CTM 036 (MD-017)	EST
	Speciated VOCs (carbon and other suitable tubes) (direct sampling of dry stacks and dynamic dilution sampling of hot wet stacks) Mercaptans Amines and Amides Phenols Cresols Carboxylic Acids Aldehydes	CEN TS 13649:2014 (MD-016)	EST
	Total Aldehydes and Formaldehyde	CEN/TS 17638:2021 (MD-019)	EST
	Total Oxides of Nitrogen (NO, NO_2 and nitric acid vapour)	US EPA Method 7D (MD-035)	EST
	Bioaerosols	BS EN 17359:2020 (MD-036)	EST
	Sampling and On-Site Analysis		
	Water Vapour	BS EN 14790:2017 (MD-005)	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis (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 and BS EN 15259:2007	
	Water Vapour*	PD CEN/TS 17337:2019 (MD-022b - Validated FTIR analyser)	EST
	Pressure, Temperature and Velocity (point velocity method) for: • Periodic Compliance Monitoring	BS EN ISO 16911-1:2013 & EA MID 16911-1 (MD-041) - using differential pressure device (pitot tube) method Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objective 1	EST
	Pressure, Temperature and Velocity (point velocity method) for: • Periodic Compliance Monitoring • Calibration of Continuous AMS • To meet requirements of Emissions Trading Schemes	BS EN ISO 16911-1:2013 (MD-041) - using differential pressure device (pitot tube) method Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objectives 1, 2 and 3	EST
	Ammonia*	PD CEN/TS 17337:2019 (MD-022c - FTIR analyser)	EST
	Carbon Monoxide*	BS EN 15058:2017 (MD-021 - NDIR analyser) (MD-025 - NDIR analyser) (MD-039 - NDIR analyser) PD CEN/TS 17337:2019 (MD-022c - Validated FTIR analyser)	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere (cont'd)	Sampling and On-Line Analysis (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 and BS EN 15259:2007	
	Carbon Dioxide*	PD CEN/TS 17405:2020 (MD-021 - NDIR analyser) (MD-039 - NDIR analyser) PD CEN/TS 17337:2019 (MD-022c - FTIR analyser)	EST
	Nitrogen Monoxide (NO)*	BS EN 14792:2017 (MD-021 - Chemiluminescent analyser) (MD-032 - Chemiluminescent analyser) (MD-039 - Chemiluminescent analyser) PDCEN/TS 17337:2019 (MD-022c - Validated FTIR analyser)	EST
	Nitrogen Dioxide (NO_2)*	BS EN 14792:2017 (MD-032 - Chemiluminescent analyser) PDCEN/TS 17337:2019 (MD-022c - Validated FTIR analyser)	EST
	Nitrous Oxide (N_2O)*	BS EN ISO 21258:2010 (MD-040 - NDIR analyser) PD CEN/TS 17337:2019 (MD-022c - Validated FTIR analyser)	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere (cont'd)	Sampling and On-Line Analysis (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 and BS EN 15259:2007	
	Oxides of nitrogen (NOx)*	BS EN 14792:2017 (MD-021 - Chemiluminescent analyser) (MD-032 - Chemiluminescent analyser) (MD-039 - Chemiluminescent analyser) PD CEN/TS 17337:2019 (MD-022c - Validated FTIR analyser)	EST
	Sulphur Dioxide*	PD CEN/TS 17021:2017 (MD-021 - NDIR analyser)EA PD CEN/TS 17337:2019 (MD-022c - FTIR analyser)	EST
	Hydrogen Chloride*	PD CEN/TS 17337:2019 (MD-022c - Validated FTIR analyser)	EST
	Propane*	PD CEN/TS 17337:2019 (MD-022c – Validated FTIR analyser)	EST
	Methane*	PD CEN/TS 17337:2019 (MD-022c – Validated FTIR analyser)	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere (cont'd)	Sampling and On-Line Analysis (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 and BS EN 15259:2007	
	Oxygen*	BS EN 14789:2017 (MD-021 - Validated Zirconium cell analyser) (MD-022 - Validated Zirconium cell analyser) (MD-025 - Paramagnetic analyser) (MD-033 - Paramagnetic analyser) (MD-039 - Paramagnetic analyser)	EST
	Total Gaseous Organic* Carbon (TOC / VOC) (0 to 1000 mg/m³)	BS EN 12619:2013 (MD-020 - FID Analyser)	EST
	Halides and Halogens* Speciated VOCs* Other inorganic gases* **The organisation holds a flexible scope of accreditation for these tests. Please contact the organisation for details of the individual gaseous compounds they can sample and analyse using this method.**	PD CEN/TS 17337:2019 (MD-022c - FTIR analyser)	EST

* - The scale range of the analyser used for this test must be that detailed on its current MCERTS certificate or a range validated by the organisation to meet MCERTS requirements.

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Stack Emissions - Continuous Emissions Monitoring Systems (CEMS)	QAL 2 and the Annual Surveillance Test (AST) for CEMS	Documented in-house procedure MD-029 to meet the requirements of BS EN 14181:2014, Environment Agency MID 14181 (TGN M20 Annex A) and other requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring and BS EN 15259:2007	EST
Stack Emissions - Continuous Emissions Monitoring Systems (CEMS) - Velocity	QAL 2 and the Annual Surveillance Test (AST) for CEMS - Velocity	Documented in-house procedure MD-029 to meet the requirements of BS EN 16911-2:2013, Environment Agency MID 16911-2 and other requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	EST
Testing of Stack Emissions to Atmosphere (cont'd)	Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory	National, International and other recognised standards using documented In-House work instructions to meet the requirements of BS EN 15259:2007	
	Particulate Matter <10 micron (PM_{10} and $PM_{2.5}$)	US EPA Method 201A (MD-026)	EST
	Sulphuric Acid (Sulphuric acid mist & Sulphur Trioxide) and Sulphur dioxide – Combined sampling train	US EPA Method 8 (MD-042)	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
LANDFILL SITES	Sampling of Landfill Gas for Subsequent Analysis by an ISO/IEC 17025 Accredited Laboratory Trace Components by Sorbent Tubes: Priority Trace Components: 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,3-Butadiene 1-Butanethiol 1-Pentene 1-Propanethiol 2-Butoxy Ethanol Arsenic (as As) Benzene Butyric Acid Carbon Disulphide Chloroethane Chloroethene (Vinyl Chloride) Dichloromethane Dimethyl Disulphide Dimethyl Sulphide Ethanal (Acetaldehyde) Ethanethiol Ethyl Butyrate Furan (1,4-Epoxy-1,3-Butadiene) Mercury (as Hg) Methanal (Formaldehyde) Methanethiol PCDDs/PCDFs Styrene 1,1,2,2, - Tetrachloroethane Tetrachloroethene Tetrachloromethane Toluene Trichloroethene Trimethylbenzene	Documented In-House Procedures Based on Environment Agency guidance document LFTGN04 Based on CEN TS 13649:2014 (MD016)	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
LANDFILL SITES (cont'd)	Sampling of Landfill Gas for Subsequent Analysis by an ISO/IEC 17025 Accredited Laboratory (cont'd)	Documented In-House Procedures Based on Environment Agency guidance document LFTGN04	
	Siloxanes Decamethylcyclopenta siloxane Decamethyltetrasiloxane Dodecamethylcyclohexa siloxane Dodecamethylpentasiloxane Hexamethylcyclotrisiloxane Hexamethyldisiloxane Octamethylcyclotetrasiloxane Octamethyltrisiloxane Trimethylsilanol	Based on CEN TS 13649:2014 (MD-016)	EST
	Trace and Bulk Components By Tedlar Bags: Hydrogen Sulphide Carbon Monoxide Carbon Dioxide Oxygen Methane Nitrogen	MD-027	EST
Biogenic Gas Samples	Sampling and subsequent analysis by an ISO/IEC 17025 accredited laboratory		
	Siloxanes by Tedlar bag: Hexamethyldisiloxane Hexamethylcyclotrisiloxane Octamethyltrisiloxane Octamethylcyclotetrasiloxane Decamethyltetrasiloxane Decamethylcyclopentasiloxane Dodecmethylcyclohexa siloxane Dodecamethylpentasiloxane Trimethylsilanol	MD-027 – Based on LFTGN04	EST

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack emissions to Atmosphere	Sampling with subsequent analysis by an ISO/IEC 17025 accredited laboratory	National, International and other recognised standards using documented In-House work instructions to meet the requirements of BS EN 15259:2007	
	Speciated VOC's (carbon and other suitable tubes) (including hot wet stacks using a modified water trap method): Amines and Amides Phenols Cresols Carboxylic acids Aldehydes Formaldehyde	Based on CEN TS 13649:2014 (MD-016) (Including Modified water trap method using Environment Agency Guidance LFTGN08)	EST

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	Chemical Testing	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: Antimony Arsenic Beryllium Cadmium Caesium Chromium Cobalt Copper Gallium Iron Lead Manganese Nickel Selenium Strontium Thallium Tin Vanadium Zinc	BS EN 14385:2024 (In House Methods MD-108 and MD-109) by Microwave digestion followed by CVAFS	OS
Filters Probe rinses (nitric acid) Impinger Solutions (sulphuric acid/potassium permanganate, nitric acid/potassium dichromate)	Mercury	BS EN 13211:2001 (In House Methods MD-108 and MD-109) by Microwave digestion followed by CVAFS	OS
Filter Papers and Rinse Solutions	Weighing of Particulate Matter	BS EN 13284-1:2017 (MD-103)	OS

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 (cont'd)	Chemical Testing (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	
	Weighing of Particulate Matter <10 micron (PM_{10} and $PM_{2.5}$)	US EPA Method 201A (MD-103) BS EN ISO 23210:2009 (MD-103)	OS
Impinger Solutions (water)	Hydrogen Chloride	BS EN 1911:2010 using Ion Chromatography analysis (MD-101)	OS
Impinger Solutions (sodium hydroxide)	Hydrogen Fluoride	BS ISO 15713:2006 (modified) using Ion Chromatography analysis (MD-101)	OS
Impinger Solutions (hydrogen peroxide)	Sulphur Dioxide	BS EN 14791:2017 using Ion Chromatography analysis (MD-101)	OS
Impinger Solutions (water)	Formaldehyde	CEN/TS 17638:2021 (in-house method MD-105) by UV/VIS Spectroscopy	OS
Impinger Solutions (water)	Hydrogen Fluoride	CEN TS 17340:2020 (MD-101)	OS

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 (cont'd)	Chemical Tests	Documented In-House Methods based on the following national, international and other recognised standards.	
Probe Rinse Samples	Metals, specifically: Antimony Arsenic Beryllium Cadmium Caesium Chromium Cobalt Copper Gallium Iron Lead Manganese Nickel Selenium Strontium Thallium Tin Vanadium Zinc	BS EN 14385:2024 (In House Methods MD-107 and MD-109) by Microwave Extraction using HF & HNO_3 followed by ICP-MS	OS
Filter Samples	Metals, specifically: Antimony Arsenic Beryllium Cadmium Caesium Chromium Cobalt Copper Gallium Iron Lead Manganese Nickel Selenium Strontium Thallium Tin Vanadium Zinc	BS EN 14385:2024 (In House Methods MD-107 and MD-109) by Microwave Extraction using HF& HNO_3 followed by ICP-MS	OS

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 (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards	
Impinger Solutions / Absorption Samples	Metals, specifically: Antimony Arsenic Beryllium Cadmium Caesium Chromium Cobalt Copper Gallium Iron Lead Manganese Nickel Selenium Strontium Thallium Tin Vanadium Zinc	BS EN 14385:2024 (In House Method MD-107) by ICP-MS	OS
Probe Rinse Samples	Mercury	BS EN 13211:2001 by Microwave Extraction using HF & HNO_3 followed by CVAFS (In House Method MD-108)	OS
Filter Samples	Mercury	BS EN 13211:2001 by Microwave Extraction using HF & HNO_3 followed by CVAFS (In House Method MD-108)	OS
Impinger / Absorption Samples	Mercury	BS EN 13211:2001 by CVAFS (In House Method MD-108)	OS
Impinger Solutions (hydrogen peroxide)	Sulphur Dioxide	BS EN 14791:2017 using Ion Chromatography analysis (MD-101)	OS

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 (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards	
Impinger Solutions (sodium hydroxide)	Hydrogen Fluoride	BS ISO 15713:2006 (modified) using Ion Chromatography analysis (MD-101)	OS
Impinger Solutions (water)	Hydrogen Chloride	BS EN 1911:2010 using Ion Chromatography analysis (MD-101)	OS
Impinger Solutions (water)	Nitrate Sulphate Fluoride	In-house method using Ion Chromatography analysis (MD-101)	OS
Impinger Solutions (water)	Total Acids expressed as HCl	Stoichiometric Calculation from fluoride, sulphate, nitrate and hydrogen chloride by Ion Chromatography (MD-101)	OS
Filter Papers and Rinse Solutions	Weighing of Particulate Matter	BS EN 13284-1:2017 (MD-103)	OS
	Weighing of Particulate Matter <10 micron (PM_{10} and $PM_{2.5}$)	US EPA Method 201A (MD-103) BS EN ISO 23210:2009 (MD-103)	OS
Impinger Solutions (water)	Formaldehyde	CEN/TS 17638:2021 (in-house method MD-105) by UV/VIS Spectroscopy	OS
Impinger Solutions (water)	Hydrogen Fluoride	CEN TS 17340:2020 (MD-101)	OS
IOM sampling heads (including PUF plugs and 25mm GFA filters) & 25mm GFA filters	Total Particulate Matter	MDHS 14/4 (in house method MD-103) by Gravimetric determination	OS
END			