


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 2522 Accredited to ISO/IEC 17025:2017	Cura Terrae OH and Emissions Testing Limited	
	Issue No: 056 Issue date: 16 April 2025	
	Bradford Chamber Business Park New Lane Bradford West Yorkshire BD4 8BX	Contact: Mr James Harmer Tel: +44 (0)1274 738668 Mobile Tel: +44 (0)7776 185935 E-Mail: james.harmer@cura-terrae.com Website: www.cura-terrae.com
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 Bradford Chamber Business Park New Lane Bradford West Yorkshire BD4 8BX Local contact Mr Andy Dykes Tel: +44 (0) 7774 068027 E-mail: andy.dykes@cura-terrae.com Website: www.cura-terrae.com	Support Functions: Quality System Quality Audit Administration Sampling and Testing: Physical Testing Stack Emissions Testing	A
Address 4C Langlands Gate Langlands Business Park East Kilbride Scotland G75 0YZ Local contact Mr Barry Grant Tel: +44 (0) 7827 331924 E-mail: barry.grant@cura-terrae.com Website: www.cura-terrae.com	Sampling and Testing: Stack Emissions Testing	D
Address Unit 2, Asher Court Lyncastle Way Appleton Warrington WA4 4ST Local Contact Mr Alastair Wolff Tel: +44 (0) 7506 729226 E-mail: alastair.wolff@cura-terrae.com Website: www.cura-terrae.com	Sampling and Testing: Physical Testing Stack Emissions Testing	E

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer Sites requiring Stack Emissions Testing	Stack Emissions Testing	B
Customer Sites requiring sampling	Sampling Landfill/Process Gases	C



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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>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u>	National, International and other recognised standards using documented In-House work instructions to meet the requirements of BS EN 15259:2007	
Testing of Stack Emissions to Atmosphere	Speciated VOCs (carbon and other suitable tubes) (including hot wet stacks using a modified water trap method): Amines and Amides Phenols Cresols Carboxylic Acids Aldehydes Mercaptans	PD CEN/TS 13649:2014 (ETC-SE-06b)	B
	Condensable VOCs (CVOCs)	Method based on BS EN 14791:2017 (ETC-SE-27)	B
	Condensable VOCs (sector specific to DEFRA sector guidance note SG1-06 and operator permit)	Based on EN 14791:2017 (TP-12)	B
	<u>Halides and Halogens</u> Hydrogen Bromide Hydrogen Chloride Hydrogen Fluoride Chlorine Fluorine Bromine	US EPA Methods 26 and 26a (ETC-SE-12)	B
	Hydrogen Fluoride	BS ISO 15713:2006 (ETC-SE-20)	B
	Total Fluoride as Hydrogen Fluoride	Based on BS ISO 15713:2006 (TP-09b)	B
	Gaseous Aldehydes and Formaldehyde	US EPA M316 (ETC-SE-02)	B
		US EPA Method 316 (TP-13a)	B



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory (cont'd)</u>	National, European, International and other recognised standards using documented In-House work instructions to meet the requirements of BS EN 15259:2007	
Testing of Stack Emissions to Atmosphere	Total Aldehydes and Formaldehyde	US EPA M316 (ETC-SE-02)	B
		US EPA Method 316 (TP-13b)	B
	Hexavalent chromium in fine particulate matter <10 micron (PM10 and PM2.5) using a three-stage cascade impactor	BS EN ISO 23210:2009 (ETC-SE-33)	B
ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Physical Testing</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	
Filter Papers and Rinse Solutions	Weighing of Particulate Matter	BS EN 13284-1:2017 (ETC-AP-01)	A
		BS EN 13284-1:2017 (AP-01)	E
Filter Papers and Rinse Solutions	Weighing of Particulate Matter <10 micron (PM ₁₀ and PM _{2.5})	BS EN ISO 23210:2009 (ETC-AP-01)	A
		BS EN ISO 23210:2009 (AP-02)	E



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Testing of Stack Emissions to Atmosphere	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</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	
	Total Particulate Matter	BS EN 13284-1:2017 (ETC-SE-01)	B
		BS EN 13284-1:2017 (TP-01)	B
	Particulate Matter <10 Micron PM ₁₀ and PM _{2.5}	BS EN ISO 23210:2009 (ETC-SE-32)	B
		BS EN ISO 23210:2009 (TP-02)	B
	Oxides of Nitrogen (NO _x) including nitric acid vapour	US EPA Method 7D (ETC-SE-25)	B
	Total Oxides of Nitrogen (NO, NO ₂ and Nitric Acid Vapour)	US EPA Method 7D (TP-19)	B
	Hydrogen Chloride	BS EN 1911:2010 (ETC-SE-05)	B
		BS EN 1911:2010 (TP-08)	B
	Hydrogen Fluoride	PD CEN/TS 17340:2020 (ETC-SE-20b)	B
		BS ISO 15713:2006 (TP-09a)	B
	Gaseous Fluoride as HF	PD CEN/TS 17340:2020 (TP-26a)	B
	Total Fluoride (Particulate and Gaseous) as HF	PD CEN/TS 17340:2020 (TP-26b)	B



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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 with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</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 and BS EN 15259:2007 (cont'd)	
	<u>Halides and Halogens</u> Hydrogen Bromide Chlorine Bromine	US EPA Methods 26 and 26a (ETC-SE-12) US EPA Methods 26 and 26a (TP-17)	
	Hydrogen Sulphide	US EPA Method 11 (ETC-SE-13) US EPA Method 11 (TP-14)	B B
	Hydrogen Sulphide (carbon tubes) (direct sampling of dry stacks and dynamic dilution sampling of hot wet stacks)	CEN TS 13649:2014 (TP-20)	B
	Ammonia	BS EN ISO 21877 (ETC-SE-15) BS EN ISO 21877:2019 (TP-11)	B B
	Speciated VOCs (carbon and other suitable tubes) (Direct sampling of dry stacks only): Amines and Amides Phenols Cresols Carboxylic Acids Aldehydes Mercaptans	PD CEN/TS 13649:2014 (ETC-SE-06a)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</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 and BS EN 15259:2007 (cont'd)	
	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 (TP-20)	B
	Isocyanates	US EPA CTM 036 (ETC-SE-26)	B
		US EPA CTM 036 (TP-18)	B
	Oil Mist	BS EN 13284:2017 & MDHS 84/2 (TP-28)	B
	Gaseous Aldehydes and Formaldehyde	PD CEN/TS 17638:2021 (ETC-SE-02)	B
		PD CEN/TS 17638:2021 (TP-29a)	B
	Total Aldehydes and Formaldehyde	PD CEN/TS 17638:2021 (ETC-SE-02)	B
		PD CEN/TS 17638:2021 (TP-29b)	B
	Total Cyanide (as HCN)	US EPA OTM29 (ETC-SE-03)	B



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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 (cont'd)	
	Hydrogen Cyanide	US EPA OTM 029 (TP-15)	B
	Sulphur Dioxide	BS EN 14791:2017 (ETC-SE-14)	B
		BS EN 14791:2017 (TP-10)	B
	Sulphuric Acid (Including Sulphuric Acid Mist and SO ₃)	US EPA Method 8 (ETC-SE-31)	B
		Based upon US EPA Method 8 (TP-31)	B
	Metals	BS EN 14385:2004 (ETC-SE-08)	B
		BS EN 14385:2004 (TP-05a)	B
	Mercury	BS EN 13211:2001 (ETC-SE-09)	B
		BS EN 13211:2001 (TP-05b)	B
	Hexavalent Chromium in Fine Particulate Matter <10 micron (PM10 and PM2.5)	BS EN ISO 23210:2009 (TP-16)	B
	Dioxins and furans	BS EN1948-1:2006 (ETC-SE-18)	B
		BS EN 1948-1:2006 (TP-06a)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</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 and BS EN 15259:2007 (cont'd)	
	Dioxin-like Polychlorinated Biphenyls (PCBs)	BS EN 1948-4:2010 (ETC-SE-18)	B
		BS EN 1948-4:2010 (TP-06b)	B
	Polycyclic Aromatic Hydrocarbons (PAHs)	BS ISO 11338-1:2003 (ETC-SE-19)	B
		BS ISO 11338-1:2003 (TP-07)	B
	Odour (direct sampling of dry stacks and dynamic dilution sampling of hot wet stacks)	BS EN 13725:2022 (ETC-SE-21)	B
	Collection of odour samples for delayed olfactometry (direct sampling of dry stacks and dilution sampling of hot wet stacks)	Documented In-house Method TP-27 based on BS EN 13725:2022 Point source sampling using: - Direct sampling - Lung method - Dynamic dilution	B
	<u>Sampling and On-Site Analysis</u>		
	Water Vapour	BS EN 14790:2017 (ETC-SE-11)	B
		BS EN 14790:2017 (TP-03)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</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 and BS EN 15259:2007	
	<u>Sampling and On-Line Analysis</u>		
	Water Vapour*	PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Pressure, Temperature and Velocity (point velocity method) for:	BS EN ISO 16911-1:2013 & EA MID 16911-1 using differential pressure device (pitot tube) method (ETC-SE-24) Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objective 1	B
	<ul style="list-style-type: none"> Periodic Compliance Monitoring 	BS EN ISO 16911-1:2013 & EA MID 16911-1 (TP-04a) - using differential pressure device (pitot tube) method Procedure to meet requirements of PD CEN TR 17078:2017	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</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 and BS EN 15259:2007	
	Pressure, Temperature and Velocity (point velocity method) for:	BS EN ISO 16911-1:2013 (ETC-SE-24) - using differential pressure device (pitot tube) method Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objectives 1, 2 and 3	B
	<ul style="list-style-type: none"> Periodic Compliance Monitoring Calibration of Continuous AMS To meet requirements of Emissions Trading Schemes 	BS EN ISO 16911-1:2013 (TP-04a) - using differential pressure device (pitot tube) method Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objectives 1, 2 and 3	B
	Pressure, Temperature and Velocity (point velocity method)	BS EN ISO 16911-1:2013 & EA MID 16911-1 (TP-04b) - using vane anemometer method	B
	Carbon monoxide*	BS EN 15058:2017 (ETC-SE-10- NDIR analyser)	B
		PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
		BS EN 15058:2017 TP-22b - NDIR analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</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 and BS EN 15259:2007	
	Carbon Dioxide*	PD CEN/TS 17405:2020 (ETC-SE-10a & b- NDIR analyser)	B
		PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
		PD CEN/TS 17405:2020 (TP-22e - NDIR analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Nitrogen Monoxide (NO)*	BS EN 14792:2017 (ETC-SE-10 - Chemiluminescence analyser)	B
		PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	
		BS EN 14792:2017 TP-22a - Chemiluminescent analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Nitrogen Dioxide (NO ₂)*	BS EN 14792:2017 (ETC-SE-10 - Chemiluminescence analyser)	B
		PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</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 and BS EN 15259:2007	
	Nitrogen Dioxide (NO ₂)* (cont'd)	BS EN 14792:2017 TP-22a - Chemiluminescent analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Nitrous oxide (N ₂ O)*	PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Oxides of Nitrogen (NO _x)*	BS EN 14792:2017 (ETC-SE-10 - Chemiluminescence analyser)	B
		PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	
		BS EN 14792:2017 TP-22a - Chemiluminescent analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Oxygen*	BS EN 14789:2017 (ETC-SE-10 - Paramagnetic analyser)	B
		BS EN 14789:2017 (TP-22d - Paramagnetic analyser)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</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 and BS EN 15259:2007	
	Sulphur dioxide*	PD CEN/TS 17021:2017 (ETC-SE-10 - NDIR analyser)	B
		PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Hydrogen chloride (HCl)*	PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Methane*	CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Formaldehyde*	CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B
	Ammonia*	PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
		CEN/TS 17337:2019 (TP-23a/TP23b -Validated FTIR analyser)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</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 and BS EN 15259:2007	
	Total Gaseous Organic* Carbon (TOC / VOC) (0 to 1000 mg/m ³)	BS EN 12619:2013 (ETC-SE-04 - FID analyser) BS EN 12619:2013 (TP-21a/TP21b - FID Analyser)	B B
* - 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.			
Stack Emissions - Continuous Emissions Monitoring Systems (CEMS)	QAL 2 and the Annual Surveillance Test (AST) for CEMS	Documented in house procedure ETC-SE-35 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 and BS EN 15259:2007	B
		Documented in house procedure TP-24 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	B



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Stack Emissions - Continuous Emissions Monitoring Systems (CEMS) - Velocity	QAL 2 and the Annual Surveillance Test (AST) for CEMS - Velocity	Documented in-house procedure ETC-SE-24 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	B
LANDFILL SITES & PROCESS EMISSIONS	Sampling with subsequent analysis at an ISO/IEC 17025 accredited laboratory	Documented in house procedure TP-04c 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	B
Sampling of gases	Trace and Bulk components using sample bags for: Hydrogen Sulphide Carbon Monoxide Carbon Dioxide Oxygen Methane Nitrogen	National, European, International and other recognised standards using documented In-House work instructions Documented In-house Method TP-25 based on CEN/TS 13649:2014 Point source sampling using: - Direct sampling - Lung method - Dynamic dilution	C



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Testing of Stack Emissions to Atmosphere	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u>	National, European, International and Irish Environmental Protection Agency specified standards and Documented InHouse work instructions to meet the requirements of Irish Environmental Protection Agency Publications AG1 and AG2 and IS EN 15259:2007	
	Speciated VOCs (carbon and other suitable tubes) (including hot wet stacks using a modified water trap method): Amines and Amides Phenols Cresols Carboxylic Acids Aldehydes Mercaptans	PD CEN/TS 13649:2014 (ETC-SE-06b)	B
	Condensable VOCs (CVOCs)	Method based on IS EN 14791:2017 (ETC-SE-27)	B
	<u>Halides and Halogens</u> Hydrogen Bromide Chlorine Bromine	US EPA Methods 26 and 26a (ETC-SE-12)	B
	Total Particulate Matter	IS EN 13284-1:2017 (ETC-SE-01)	B
	Particulate Matter <10 Micron PM ₁₀ and PM _{2.5}	IS EN ISO 23210:2009 (ETC-SE-32)	B
	Oxides of Nitrogen (NO _x) including nitric acid vapour	US EPA Method 7D (ETC-SE-25)	B
	Hydrogen Chloride	IS EN 1911:2010 (ETC-SE-05)	B
	Hydrogen Fluoride	PD CEN/TS 17340:2020 (ETC-SE-20b)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u> (cont'd)	National, European, International and Irish Environmental Protection Agency specified standards and Documented InHouse work instructions to meet the requirements of Irish Environmental Protection Agency Publications AG1 and AG2 and IS EN 15259:2007	
	Hydrogen Sulphide	US EPA Method 11 (ETC-SE-13)	B
	Ammonia	IS EN ISO 21877 (ETC-SE-15)	B
	Speciated VOCs (carbon and other suitable tubes) (Direct sampling of dry stacks only): Amines and Amides Phenols Cresols Carboxylic Acids Aldehydes Mercaptans	PD CEN/TS 13649:2014 (ETC-SE-06a)	B
	Isocyanates	US EPA CTM 036 (ETC-SE-26)	B
	Gaseous Aldehydes and Formaldehyde	US EPA M316 (ETC-SE-02)	B
	Total Aldehydes and Formaldehyde	US EPA M316 (ETC-SE-02)	B
	Total Cyanide (as HCN)	US EPA OTM29 (ETC-SE-03)	B
	Sulphur Dioxide	IS EN 14791:2017 (ETC-SE-14)	B
	Sulphuric Acid (Including Sulphuric Acid Mist and SO ₃)	US EPA Method 8 (ETC-SE-31)	B



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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 with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u> (cont'd)	National, European, International and Irish Environmental Protection Agency specified standards and Documented InHouse work instructions to meet the requirements of Irish Environmental Protection Agency Publications AG1 and AG2 and IS EN 15259:2007	
	Metals	IS EN 14385:2004 (ETC-SE-08)	B
	Mercury	IS EN 13211:2001 (ETC-SE-09)	B
	Dioxins and furans	IS EN1948-1:2006 (ETC-SE-18)	B
	Dioxin-like Polychlorinated Biphenyls (PCB's)	IS EN 1948-4:2010 (ETC-SE-18)	B
	Polycyclic Aromatic Hydrocarbons (PAHs)	IS ISO 11338-1:2003 (ETC-SE-19)	B
	Odour (direct sampling of dry stacks and dynamic dilution sampling of hot wet stacks)	IS EN 13725:2022 (ETC-SE-21)	B
	<u>Sampling and On-Site Analysis</u> Water Vapour	 IS EN 14790:2017 (ETC-SE-11)	 B



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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</u>	National, European, International and Irish Environmental Protection Agency specified standards and Documented InHouse work instructions to meet the requirements of Irish Environmental Protection Agency Publications AG1 and AG2 and IS EN 15259:2007	
	Water Vapour†	PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Pressure, Temperature and Velocity (point velocity method) for: <ul style="list-style-type: none"> Periodic Compliance Monitoring 	IS EN ISO 16911-1:2013 & EA MID 16911-1 using differential pressure device (pitot tube) method (ETC-SE-24) Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objective 1	B
	Pressure, Temperature and Velocity (point velocity method) for: <ul style="list-style-type: none"> Periodic Compliance Monitoring Calibration of Continuous AMS To meet requirements of Emissions Trading Schemes 	BS EN ISO 16911-1:2013 (ETC-SE-24) - using differential pressure device (pitot tube) method Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objectives 1, 2 and 3	B
	Carbon monoxide†	IS EN 15058:2017 (ETC-SE-10- NDIR analyser) PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Carbon Dioxide†	PD CEN/TS 17405:2020 (ETC-SE-10a & b- NDIR analyser) PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</u> (cont'd)	National, European, International and Irish Environmental Protection Agency specified standards and Documented InHouse work instructions to meet the requirements of Irish Environmental Protection Agency Publications AG1 and AG2 and IS EN 15259:2007	
	Nitrogen Monoxide (NO) [†]	IS EN 14792:2017 (ETC-SE-10 - Chemiluminescence analyser) PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Nitrogen Dioxide (NO ₂) [†]	IS EN 14792:2017 (ETC-SE-10a & b - Chemiluminescence analyser) PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Nitrous oxide (N ₂ O) [†]	PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Oxides of Nitrogen (NO _x) [†]	IS EN 14792:2017 (ETC-SE-10a & b - Chemiluminescence analyser) PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Oxygen [†]	IS EN 14789:2017 (ETC-SE-10a Zirconia /10b - Paramagnetic analyser)	B



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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</u> (cont'd)	National, European, International and Irish Environmental Protection Agency specified standards and Documented InHouse work instructions to meet the requirements of Irish Environmental Protection Agency Publications AG1 and AG2 and IS EN 15259:2007	
	Sulphur dioxide†	PD CEN/TS 17021:2017 (ETC-SE-10a - NDIR analyser) PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Hydrogen chloride (HCl)†	PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Ammonia†	PD CEN/TS 17337:2019 (ETC-SE-28 – Validated FTIR analyser)	B
	Total Gaseous Organic† Carbon (TOC / VOC) (0 to 1000 mg/m³)	IS EN 12619:2013 (ETC-SE-04 - FID analyser)	B

†- The scale range of the analyser used for this test must meet the specific requirements specified in the Irish Environmental Protection Agency document "AG2 Index of Preferred Methods"

END