


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<b>Environmental Scientifics Group Limited</b> <b>Trading as TES Bretby</b>	
	<b>Issue No: 026    Issue date: 08 July 2011</b>	
	<b>Energy Services</b> <b>Bretby Business Park</b> <b>Ashby Road</b> <b>Burton-upon-Trent</b> <b>DE15 0YZ</b>	<b>Contact: Mr James Clay</b> <b>Tel: +44 (0)1283 554454</b> <b>Fax: +44 (0)1283 554474</b> <b>E-Mail: james.clay@esg.co.uk</b> <b>Website: www.esg.co.uk</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Bretby Business Park Ashby Road Burton-upon-Trent Staffordshire DE15 0XY	<b>Local contact</b> Mr James Clay  Tel: +44 (0) 1283 554454 Fax: +44 (0) 1283 554474 Email: james.clay@esg.co.uk Website: www.esg.co.uk	Preparation and Testing of Solid Fuels	A
<b>Address</b> Scottish Field Laboratory Bathgate Road Armadale West Lothian EH48 2PY	<b>Local contact</b> Mr T Morman  Tel: +44 (0)1501 734488 Fax: +44 (0)1501 733822 Email: tom.morman@esgl.co.uk Website: www.esg.co.uk	Preparation and Testing of Coal	B

#### Site activities performed away from the locations listed above:

Location details		Activity	Location code
<b>Address</b> Immingham Dock South Humberside DN40 2QN	<b>Contact</b> Mr James Clay  Tel: +44 (0) 1283 554454 Fax: +44 (0) 1283 554474 Email: james.clay@esg.co.uk Website: www.esg.co.uk	Preparation of Coal	C
Solid fuel offloading and distribution sites		Solid Fuel Sampling	D



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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
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS and MINERALS	Determination of Loss of Moisture on air drying (including associated sample preparation to particle size smaller than 212 µm and 2.80 mm)	Documented In-House Method SP 1 based on ISO 13909:2001 Part 4 - Preparation of Test Samples	A
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS and MINERALS	Preparation of General Analysis Samples	Documented In-House Method SP 2 based on ISO 13909:2001 Part 4 - Preparation of Test Samples	A
PEAT	Sample Preparation by particle size reduction to 212 µm particle size and drying to constant mass	Documented In-House Method SP 6	A
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS and MINERALS	Total Moisture Content	Documented In-House Methods CA 1 and SP 1 based on ISO589:2008 and ISO 13909-4	A
COALS, MANUFACTURED SOLID MINERAL FUELS, COLLIERY SPOILS AND PEAT	Moisture Content of Analysis Sample (-212 µm)	Documented In-House Method CA 2 based on ISO 11722:1999	A
COALS, MANUFACTURED SOLID MINERAL FUELS, COLLIERY SPOILS, PEAT and SOILS	Ash Content	Documented In-House Method CA 3 based on ISO 1171:2010	A
COALS, MANUFACTURED SOLID MINERAL FUELS and COLLIERY SPOILS	Volatile Matter	Documented In-House Method CA 6 based on ISO 562:2010	A
COALS, MANUFACTURED SOLID MINERAL FUELS, COLLIERY SPOILS, PEAT, SOILS and OILS	Sulphur Content	Documented In-House Method CA 31 using Helios Analyser	A
COALS, MANUFACTURED SOLID MINERAL FUELS, COLLIERY SPOILS and SOILS	Sulphur Content	Documented In-House Method CA 8 using LECO SC-432 analyser	A



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COALS, MANUFACTURED SOLID FUELS and COLLIERY SPOILS	Sulphur Content	Documented In-House Method CA 19 based on BS 1016:Part 106:Section 106.4, Subsection 106.4-1:1993 using the Eschka Method	A
COALS, MANUFACTURED SOLID MINERAL FUELS and COLLIERY SPOILS	Chlorine Content	Documented In-House Method CA 18 based on ISO 587:1997	A
COALS, MANUFACTURED SOLID MINERAL FUELS, PEAT, COLLIERY SPOILS, SOILS and OILS	Calorific Value	Documented In-House Method CA 11 based on ISO 1928:2009	A
COALS and MANUFACTURED SOLIDS FUELS	Caking Power by Gray-King Coke test	Documented In-House Method CA 14 based on BS 1016:Part 107:Section 107.2: 1991	A
COALS and MANUFACTURED SOLIDS FUELS	Determination of Crucible Swelling Number	Documented In-House Method CA 13 based on BS 1016:Part 107:Section 107.1: 1991	A
COALS, MANUFACTURED SOLID MINERAL FUELS and COLLIERY SPOILS	Determination of Specific Gravity	Documented In-House Method CA 12 based on NCB Analyst Handbook Volume 2:Section 16, July 1958	A
COALS, MANUFACTURED SOLID MINERAL FUELS and COLLIERY SPOILS	Forms of Sulphur: Pyritic Organic Sulphate	Documented In-House Method CA 20 based on ISO 157:1996	A
COALS, MANUFACTURED SOLID MINERAL FUELS, COLLIERY SPOILS, PEAT, ORGANIC MATERIALS including ORGANIC CHEMICALS, SEDIMENTS and SOILS	Carbon, Hydrogen and Nitrogen Content	Documented In-House Method CA 9 by instrumental analysis using an Exeter Analytical CE 440 Analyser	A
COALS, MANUFACTURED SOLID MINERAL FUELS and their RESIDUES	Fusibility of Ash	Documented In-House Method CA 17 based on ISO 540:2008	A



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COAL POWDERS	Chlorine	Documented In-House Method CA 34 based on method described in Analyst: November 1990, Vol 115 using Wavelength Dispersive XRF	A
	Sodium Magnesium Aluminium Silicon Phosphorus Sulphur Chlorine Potassium Calcium Iron Derived Parameters: Base/Acid Ratio Ash Slagging Index Fouling Factor	Documented In-House Method CA 35 based on method described in Analyst; November 1990, Vol 115 using Wavelength Dispersive XRF	A
COALS, MANUFACTURED SOLID FUELS, SOILS and MINERALS	Determination of Hardgrove Grindability Index of hard coal	Documented In-House Method SP 3 based on BS 1016:Part 112:1995	A
COALS, MANUFACTURED SOLID FUELS, SOILS and MINERALS	Determination of Abrasion Index	Documented In-House Method SP 9 based on ISO 12900:1998	A
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS and MINERALS	Determination of Float and Sink Characteristics	Documented In-House Method SP 12 based on BS 7067:1990	A
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS and MINERALS	Size Analysis	Documented In-House Method SP 8 based on ISO 1953:1994	A
Stonedust Powders and Calcareous Materials	Total Silicon Content	Documented In-House Method CA 33 using Wavelength Dispersive XRF	A



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COAL	Determination of Loss of Moisture on air drying (including associated sample preparation to particle size smaller than 212 µm and 2.80 mm)	Documented In-House Method SFL SP1 based on ISO13909	B
COAL	Preparation of General Analysis Samples by ISO Method	Documented In-House Method SFL SP2 based on ISO13909	B
COAL	Total Moisture Content	Documented In-House Method SFL CA 1 based on ISO 589:2008	B
COAL	Moisture Content of Analysis Sample (- 212 µm)	Documented In-House Method SFL CA 2 based on ISO 11722:1999	B
COAL	Ash Content	Documented In-House Method SFL CA3 based on ISO 1171:1997	B
COAL	Volatile Matter	Documented In-House Method SFL CA6 based on ISO 562:1998	B
COAL	Sulphur Content	Documented In-House Method SFL CA31 using Eltra-Helios analyser	B
COAL	Calorific Value	Documented In-House Method SFL CA11 based on ISO 1928:2009	B
COAL	Size Analysis	Documented In-House Method SFL SP8 based on ISO1953:1994	B
COAL	Sampling of a - 50 mm Gross Common Sample	Documented In-House Method SP 23 based on BS ISO 18283:2006 - Manual Sampling	C, D
COAL	Preparation of 10mm Gross Common Sample	Documented In-House Method SP 22 based on ISO 13909:2001-Part 4 Coal	C
COAL	Sampling of a - 50 mm Gross Common Sample	Documented In-House Method SP 23 based on BS ISO 18283:2006 - Manual Sampling	D



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SOLID BIOFUELS	Sample Preparation	Documented In-House Method SP 19 based on EN 14780:2011	A
	Total Moisture	Documented In-House Method SP 20 based on EN 14774-1:2009	A
	General Analysis Moisture	Documented In-House Method CA 2 based on EN 14774-3:2009	A
	Ash Determination	Documented In-House Method CA 3 based on EN 14775:2009	A
	Volatile Matter	Documented In-House Method CA 6 based on EN 15148:2009	A
	Sulphur Determination	Documented In-House Method CA 31 based on EN 15289:2011	A
	Calorific Value	Documented In-House Method CA 11 based on EN 14918:2009	A
	Carbon, Hydrogen, Nitrogen	Documented In-House Method CA 9 based on EN 15104:2011	A
	Determination of Mechanical Durability of Pellets	Documented In-House Method SP 21 based on EN 15210-1:2009	A
SOLID RECOVERED FUELS	Sample Preparation	Documented In-House Method SP 19 based on EN 15443:2011	A
	Total Moisture	Documented In-House Method SP 20 based on EN 15414-1:2010	A
	General Analysis Moisture	Documented In-House Method CA 2 based on EN 15414-3:2011	A



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SOLID RECOVERED FUELS (cont'd)	Ash Determination	Documented In-House Method CA 3 based on EN 15403:2011	A
	Volatile Matter	Documented In-House Method CA 6 based on EN 15402:2011	A
	Sulphur Determination	Documented In-House Method CA 31 based on EN 15408:2011	A
	Calorific Value	Documented In-House Method CA 11 based on EN 15400:2011	A
	Carbon, Hydrogen, Nitrogen	Documented In-House Method CA 9 based on EN 15407:2011	A
	Biomass Content	Documented In-House Method CA 32 based on EN 15440:2011	A
END			