


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>1765</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Alfred H Knight Energy Services Ltd</h3> <p>Issue No: 056 Issue date: 09 April 2026</p>	
	<p>Unit 1 Palmermount Industrial Estate Bypass Road Dundonald Kilmarnock Ayrshire KA2 9BL</p>	<p>Contact: Julie McEleny Tel: +44 (0)1563 850375 Mobile: +44 (0)7387 419 158 E-Mail: julie.mceleny@ahkgroup.com Website: www.ahkgroup.com</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 Unit 1 Palmermount Industrial Estate Bypass Road Dundonald Kilmarnock Ayrshire KA2 9BL</p> <p>Local contact Julie McEleny Tel: +44 (0)1563 850375 Email: Julie.mceleny@ahkgroup.com Website: www.ahkgroup.com</p>	Fuels - Chemical and Physical Tests	A
<p>Address Units B3 - B4 Olympic Business Park Dundonald Kilmarnock Ayrshire KA2 9BE</p> <p>Local contact Julie McEleny Tel: +44 (0)1563 850375 Email: Julie.mceleny@ahkgroup.com Website: www.ahkgroup.com</p>	Fuels - Chemical and Physical Tests	B
<p>Address Temple House Unit 1, Farfield Park Manvers Way Wath upon Dearne Rotherham S63 5DB</p> <p>Local contact Sorrelle Reed Tel: +44(0) 1709 871 315 E-Mail: sorrelle.reed@ahkgroup.com Website: www.ahkgroup.com</p>	Sampling and Sample Preparation of Solid Recovered Fuels and Refuse Derived Fuels	D

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Premises away from the main Laboratories	Fuels – Sampling Sampling of Solid Recovered Fuels and Refuse Derived Fuels	E



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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
COAL, COKE	<u>Chemical and Physical Tests</u>		
	Sampling	Documented In-House Method KES/93/Prep-C conforming to: BS ISO 18283:2022 ASTM D2234 (location E)	A, B, E
	Sample Preparation	Documented In-House Method KES/93/Prep-C conforming to: BS ISO 18283:2022 ASTM D2013 (location B)	B,
	Hardgrove Grindability Index (HGI)	Documented In-House Method SM041 (using Hardgrove Machine) based on: BS ISO 5074:2015; and ASTM D409:2016	A,
	Free Swelling Index (Crucible Swelling Number)	Documented In-house Method SM010 based BS ISO 501:2025	A
	Total Moisture	Documented In-House Method based on ASTM D3302:2022	A, B
COAL	Analysis Moisture	Documented In-House Method based on ASTM D3173:2021	A
	Trace Elements: As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn, B, Ti, U, Sn, Te	Documented In-House Method SM044 (using ICP-MS) conforming to: BS ISO 23380:2022; and ASTM D6357:2021	A
ASH	Trace Elements: As, Be, Cd, Co, Cr, Cu, Hg, Mn, Ni, Pb, Sb, Se, Sn, V, Zn	Documented In-House Method SM044 (using ICP-MS) conforming to BS EN ISO 16968:2015	A
SOLID BIOFUELS	Sampling	Documented In-House Method KES/93/Prep-B conforming to: BS EN 18135:2017; BS EN ISO 14780:2017 + A1 2019	A, B, E
	Sample Preparation	Documented In-House Method KES/93-Prep-B conforming to: BS EN 18135:2017 BS EN ISO 14780:2017+ A1 2019	B



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	<u>Chemical and Physical Tests</u> (cont'd)		
SOLID BIOFUELS (cont'd)	Minor Elements: As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn, B, Ti, U, Sn, Te	Documented In-House Method SM044 (using ICP-MS) conforming to: BS EN ISO 16967:2015; and ISO BS EN 16968:2015	A
	Particle Size Distribution	Documented In-House Method SM048 conforming to BS EN ISO 17827: Part 1:2024	B
SOLID BIOFUELS (including WOOD PELLETS) and ASH	Particle Size Distribution: <3.15mm	Documented In-House Method SM049 conforming to BS EN ISO 17827: Part 2:2024	B
SOLID BIOFUELS	Particle Size Distribution of Disintegrated Pellets	Documented In-House Method SM049 conforming to BS EN ISO 17830:2024	B
WOOD PELLETS	Length Diameter	Documented In-House Method SM048A conforming to BS EN ISO 17829:2015	B
WOOD PELLETS COMPRESSED FUELS	Particle Density	Documented In-House Method SM054, BS EN ISO 18847:2024	A
SOLID BIOFUELS (including WOOD PELLETS), ASH and SOLID RECOVERED FUELS	Bulk Density	Documented In-House Method SM050 conforming to: BS EN ISO 17828:2025 and DD CEN/TS 15401:2010	B
SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE	Sample Preparation	Documented In-House Method KES/93/Prep-S conforming to: BS EN ISO 21646:2022	B
SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE	Minor Elements: As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn, B, Ti, U, Sn, Te	Documented In-House Method SM044 (using ICP-MS) conforming to: BS EN 15410:2011; and BS EN 15411:2011	A
COAL, COKE, SOLID BIOFUELS, PEAT, SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE	Chlorine and Fluorine	Documented In-House Method SM045 (using Ion Chromatography) conforming to: BS EN ISO 16994:2016 and BS EN 15408:2011	A



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<p>COAL, COKE, SOLID BIOFUELS, SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE, PEAT, SOILS, COLLIERY SPOIL and HIGH ASH MATERIALS</p> <p>COAL, COKE, SOLID BIOFUELS, SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE, PEAT, SOILS, COLLIERY SPOIL and HIGH ASH MATERIALS</p>	<p><u>Chemical and Physical Tests</u> (cont'd)</p>		
	Total Moisture	Documented In-House Method SM030 (Gravimetric Determination) conforming to: ISO 589:2008 ISO 579:2013 BS EN ISO 18134-2:2024 CEN/TS 15414, Part 2; 2010	A, B
	Analysis Moisture	Documented In-House Method SM031 (Gravimetric Determination) conforming to: ISO 11722;:2013 ISO 687:2024 BS EN ISO 18134-3:2023 BS EN ISO 21660-3:2021	A
	Ash	Documented In-House Method SM033 Gravimetric Based on ISO 1171:2024 ASTM D3174:2012 BS EN ISO 18122:2022 BS EN ISO 21656:2021	A
	Total Sulphur	Documented In-House Method SM 034 (using combustion Infra-Red Analyser) conforming to: ASTM D4239:2021 and; ISO 17247:2020; BS EN ISO 16994:2016, and BS EN ISO 21663:2020	A
	Volatile Matter	Documented In-House Method SM032 (Gravimetric Determination) conforming to: BS ISO 562:2024 ASTM D3175:2020; BS EN ISO 18123:2023 BS EN ISO 22167:2021	A



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COAL, COKE, SOLID BIOFUELS, SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE, PEAT, SOILS, COLLIERY SPOIL and HIGH ASH MATERIALS (cont'd)	<u>Chemical & Physical Tests</u> (cont'd)	<u>Documented In House Methods</u>	
	Carbon Hydrogen Nitrogen	Documented In-House Method SM 035 (based on Instrumental Determination) conforming to: ASTM D5373:2021; ISO BS EN 16948:2015 BS EN ISO 21663:2020 BS ISO 29541:2025	A
	Gross Calorific Value	Documented In-House Method SM 036 (using Bomb Calorimetry) conforming to: BS ISO 1928:2020 BS EN ISO 18125:2017 BS EN ISO 21654:2021 ASTM D5865:2019;	A
	Chlorine	Documented In-House Method SM039 (Ion Selective Electrode Testing of aqueous residue from Test SM036) conforming to: BS EN 16994:2016, ASTM D4208:2019 & BS EN 15408:2011	A
COAL, COKE, SOLID BIOFUELS, SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE, PEAT, SOILS, COLLIERY SPOIL and HIGH ASH MATERIALS	Calculation of Net Calorific Value	Documented In-House Method SM 037 conforming to: BS ISO 1928:2020 BS EN ISO 18125:2017 BS EN ISO 21654:2021 ASTM D5865 :2019	A
COAL, COKE, SOILS, COLLIERY SPOIL and HIGH ASH MATERIALS	Calculation of Fixed Carbon	Documented In-House Method SM 022 conforming to: BS 1016, Part 100:1994 ASTM D3172:2021	A



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BIOFUELS, SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE and other CARBONACEOUS MATERIALS	<u>Chemical & Physical Tests</u> (cont'd)	<u>Documented In House Methods</u>	
	Biomass Content expressed As; Mass, by Energy Content (gross or net calorific value), or Carbon Content	Documented In-House Method SM 042 (using Selective Dissolution Method) conforming to BS EN ISO 21644:2021 (Annex B)	A
SOLID BIOFUELS: PELLETS and BRIQUETTES	Biomass and Fossil Energy Content	Documented In-House Method SM 046 based on "Template Methodology for measuring fossil derived contamination within waste wood" Ofgem Guidance Note 9 November 2013	B
	Mechanical Durability	Documented In-House Method SM 043 (using Pellet Tester) conforming to: ISO BS EN 17831-1:2025	B
	Determination of Fines Content	Documented In-House Method SM 053 conforming to: BS EN ISO 5370:2023	B
COAL, SOLID BIOFUEL and SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE	Carbonate Content and Calculation of Organic Carbon Content	Documented In-House Method SM 047 (by Titrimetry) conforming to: BS 1377-3:2018+A1 2021	A
COAL, SOLID BIOFUEL and SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE	Ash Fusion Temperature	Documented In-House Method SM017 (using Ash Fusion Furnace) conforming to: ISO 540:2008; ASTM D1857:2018; and BS EN ISO 21404:2020CEN/TS 15404:2010	A
COAL, COKE, SOLID BIOFUELS, SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, MUNICIPAL SOLID WASTE	Loss on Ignition at specified temperatures inc 440°C, 550°C, 815°C	Documented In-House Method SM052 based on BS ISO 1171:2024, BS ISO 18122:2022, BS EN ISO 21656:2021 and BS EN 15935:2021	A



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TROMMEL FINES SOLID RECOVERED FUELS, REFUSE DERIVED FUELS, SOLID MUNICIPAL WASTE	<u>Chemical & Physical Tests</u> (cont'd)	<u>Documented In House Methods</u>	
	Loss on Ignition at specified temperatures inc 440°C, 550°C, 815°C	Documented In-House Method SM052 in accordance with HMRC document LFT1:2023	A
	<u>Sampling and Sample Preparation</u>		
	Sampling of Solid Recovered Fuels	Documented in-house procedure QOP06 based on BS EN 21645:2021	D, E
	Sample Preparation of Solid Recovered Fules (sample division, oven drying, grinding, shredding)	Documented in-house procedure TCM010 based on BS EN ISO 21646:2022	D
	Total Moisture	Documented in house procedure TCM01 based on BS EN 15414-1:2020	D
Calculation of Net Calorific Value	Documented in-house procedure LM20 (calculation) based on BS EN ISO 21654:2021	D	
Particle Size Distribution: 0.25mm, 1mm, 3.15mm, 5mm	Documented in-house procedure TCM06 based on BS EN 15415-1:2011	D	
END			