

# 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>	<h3>SembCorp Utilities (UK) Limited</h3> <p>Issue No: 028    Issue date: 23 December 2011</p>	
	<p><b>Analytical Services Building</b> Wilton International Middlesbrough TS90 8WS</p>	<p><b>Contact: David Sigsworth</b> Tel: +44 (0)1642 212373 Fax: +44 (0)1642 212718 E-Mail: Dave.Sigsworth@sembcorp.com Website:</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><b>Address</b> Analytical Services Building Wilton International Middlesbrough TS90 8WS</p> <p><b>Local contact</b> Mr David Sigsworth  Tel: +44 (0)1642 212373 Fax: +44 (0)1642 212718 Email: Dave.Sigsworth@sembcorp.com</p>	<p><b>Support functions:</b> Quality System Quality Audit Administration</p> <p><b>Sampling and Testing:</b> Health and Hygiene Environmental Testing Physical Testing</p>	A

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

Location details	Activity	Location code
<p>Premises including domestic, commercial and industrial</p>	<p>Health and Hygiene</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
ASBESTOS FIBRES IN AIR	<u>Health and Hygiene</u>	Health and Safety Executive Asbestos: The analysts' guide for sampling, analysis and clearance procedures (HSG 248) and Methods for the Determination of Hazardous substances in the series MDHS	
	Sampling of air for fibre counting	HSG 248:February 2005 (Documented In-House Procedure)	B
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Fibre counting	HSG 248 February 2005 Membrane Filter Method using Phase Contrast Microscopy (PCM)	A, B
	Sampling of bulk materials for asbestos identification	HSG 248:February 2005 (Documented In-House Procedure)	B
Filter Papers and rinse solutions	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248:February 2005 (Documented In-House Procedure using stereo-microscopy, polarised light microscopy and dispersion staining)	
	<u>Physical Testing</u>		
	Weighing of Particulate Matter	BS EN 13284-1:2002 (MET/ASL/065)	A
		BS ISO 9096:2003 (MET/ASL/065)	A



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ENVIRONMENTAL SAMPLES: Waters and Effluents	<u>Chemical Testing</u>		
	Ammonia	Documented In House Method ASL/MET/099 (Skalar)	A
	Cyanide	Documented In-House Method ASL/MET/099 (Skalar)	A
	Biological Oxygen Demand	Documented In-House Method ASL/MET/096 (oxygen electrode)	A
	Chemical Oxygen Demand	Documented In House Method ASL/MET/095 (colorimetry)	A
	Metals: Cadmium Chromium Copper Zinc	Documented In House Method ASL/MET/ 049 (ICP/MS)	A
	pH	Documented In House Method ASL/MET/012	A
	Suspended solids	Documented In House Method ASL/MET/070 (gravimetry)	A
	Total Organic Carbon	Documented In-House Method ASL/MET/013	A
WOOD FUEL ASH & COAL FUEL ASH	Volatile Organic Compounds: Benzene Chloroform Toluene 1,2-Dichloroethane Ethylbenzene p-Xylene m-Xylene o-Xylene Cumene	Documented In-House Method ASL/MET/040 (GC-MS)	A
	<u>Chemical Testing</u>		
	Carbon content	Documented In-House Methods METH/W10/CHNS and METH/W10/ASH-C by Thermo Flash CHNS elemental analyser	A



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WOOD & WOOD PRODUCTS	<u>Chemical Testing</u>		
	Calculation of wood fuel purity	Documented In-House Method MET/ASL/131	A
	Plastics content	Documented In-House Method MET/ASL/122 by inspection and gravimetry	A
	Moisture	Documented In-House Method MET/ASL/128 by gravimetry (based upon ASTM E871-82)	A
	Particle size distribution	Documented In-House Method MET/ASL/120 by sieving	A
	Gross and Net Calorific value	Documented In-House Methods MET/ASL/130 and MET/ASL/129 by Parr Bomb Calorimetry	A
	Carbon Hydrogen Nitrogen Sulphur	Documented In-House Methods MET/ASL/125 by Thermo Flash CHNS elemental analyser	A
	Halides	Documented In-House Method MET/ASL/126 by Ion Chromatography following combustion in bomb calorimeter	A
Metals, specifically: Aluminium Antimony Arsenic Cadmium Chromium Cobalt Copper Lead Manganese Mercury Nickel Potassium Sodium Thallium Tin Vanadium Zinc	Documented In-House Method MET/ASL/127 by ICP-MS	A	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WOOD & WOOD PRODUCTS (cont'd)  COAL	<u>Chemical Testing</u> (cont'd)  Ash	Documented In-House Method MET/ASL/121 based upon ASTM E1534 by muffle furnace and gravimetry	A
	<u>Chemical Testing</u>  Particle Size	Documented In-House Method MET/ASL/119	A
	Moisture Content	Documented In-House Method MET/ASL/128 based upon ASTM D5142 by Gravimetry	A
	Ash Content	Documented In-House Method METH/COAL/ASH based upon ASTM D5142 by Muffle Furnace	A
END			