



National Association of Testing Authorities, Australia SCOPE OF ACCREDITATION

ACIRL Quality Testing Services Pty Ltd trading as ACTest

ACTEST NEWCASTLE COAL TESTING LABORATORY

| Accreditation Number: 15784 | Site Number: 1422 |

Address Details:

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MAYFIELD, NSW 2304
AUSTRALIA

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Availability: Services available to external clients

Note: Not all of the columns of the scope of accreditation displayed include data.

The only data displayed is that deemed relevant and necessary for the clear description of the activities and services covered by the scope of accreditation.

Grey text appearing in a SoA is additional freetext providing further refinement or information on the data in the preceding line entry.

ISO/IEC 17025 (2005) Environment

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis for engine emissions	Diesel exhaust emissions	Carbon dioxide; Carbon monoxide;	Nondispersive infrared (NDIR)	In-house CBM E042 Under the terms of approval of the the Chief Inspector of Coal Mines	
	Analysis in the field and laboratory				
	Diesel exhaust emissions	Nitrogen - Oxides (NOx)	Chemiluminescence gas analyser	In-house CBM E042 Under the terms of approval of the Chief Inspector of Coal Mines	
	Under the terms of approval of	Analysis in the field and laboratory			

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	the Chief Inspector of Coal Mines				
Analysis of mine atmospheres for gases	Mine gases	Butane (n-butane); Carbon dioxide; Ethane; Ethene (ethylene); Hydrogen; Methane; Nitrogen; Oxygen; Propane; Propene (propylene);	Gas chromatography (GC)	In-house CBM E041	
		Carbon monoxide	Nondispersive infrared (NDIR)	In-house CBM E041	
Sample collection	Emissions - Engine	Not applicable	Continuous flow analyser (CFA)	In-house CBM E043 Under the terms of approval of the Chief Inspector of Coal Mines	

ISO/IEC 17025 (2005) Materials

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis of coals, coke, charcoal and related products	Coal	Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Germanium; Lead; Lithium; Manganese; Nickel; Selenium; Thallium; Thorium; Tin; Uranium; Vanadium; Zinc;	ICP-MS	In-house CBM L030-3	
		Caking power	Gray King coke test	AS 1038.12.2 ISO 502 BS 1016.107.2	
		Size analysis	Classical	AS 3881 (2002)	



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				ASTM D4749 BS 1016.109 ISO 1953	
		Plasticity	Gieseler plastometer	AS 1038.12.4.1 (1996) ASTM D2639 ISO 10329	
		Mercury	Atomic absorption spectroscopy (AAS)	ASTM D6722	
		Barium; Beryllium; Chromium; Cobalt; Copper; Lead; Manganese; Molybdenum; Nickel; Vanadium; Zinc;	Atomic absorption spectroscopy (AAS)	AS 1038.10.0 (Appendix B)	
		Antimony; Arsenic; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Molybdenum; Nickel; Thallium; Thorium; Uranium; Vanadium; Zinc;	ICP-MS	ASTM D6357	
		Float and sink analysis	Classical	AS 4156.1	
		Boron	ICP-MS	AS 1038.10.3	
		Dilatation	Gieseler plastometer	AS 1038.12.3 (2002) ISO 23873	
		Antimony; Arsenic; Selenium;	ICP-MS	AS 1038.10.2	
		Crucible swelling number; Free swelling index;	Classical	AS 1038.12.1 (2002) ASTM D720 BS 1016.107.1 ISO 501 BS ISO 501	
		Moisture - Total	Classical	AS 1038.1 (2001) ASTM D2961	

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				ASTM D3302 BS 1016.1 ISO 589	
		Fluorine	Ion selective electrode (ISE)	AS 1038.10.4 ASTM D5987 ISO 11724	
		Froth flotation - Basic; Froth flotation - Sequential;	Classical	AS 4156.2.1 AS 4156.2.2	
		Chlorine; Fluorine;	Ion chromatography (IC)	ISO /TS 18806 (Method A)	
		Hardgrove grindability index	Classical	AS 1038.20 ASTM D409 BS 1016.112 ISO 5074	
	Coal; Coke;	Carbonate carbon	Classical	AS 1038.23 ISO 925 BS 1016.106.7	
		Relative density (specific gravity)	Classical	AS 1038.21.1.1 AS 1038.21.1.2	
		Ash fusibility	Classical	AS 1038.15 (1995) ASTM D1857 ISO 540 BS ISO 540 BS 1016.113	
		Moisture	Classical	AS 1038.3 (2000) ASTM D3173 ISO 11722 BS 1016.104.1	
		Ash	Classical	AS 1038.3 (2000) ASTM D3174 ISO 1171 BS ISO 1171 BS 1016.104.4	
		Abrasion index	Classical	AS 1038.19	
		Sulfur - Total	Infrared (IR)	AS 1038.6.3.3 ASTM D4239 ISO 19579 BS ISO 19579	
		Sample preparation of coals and coke	Classical	ASTM D2013	



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		Fixed carbon	Classical	AS 1038.3 (2000) ISO 17246 BS ISO 17246	
		Aluminium; Barium; Calcium; Iron; Magnesium; Manganese; Phosphorus; Potassium; Silicon; Sodium; Strontium; Sulfur; Titanium; Zinc;	X-ray fluorescence (XRF)	AS 1038.14.3 ASTM D4326 ISO 13605	
		Volatile matter	Classical	AS 1038.3 (2002) ASTM D3175 ISO 562 BS 1016.104.4 BS ISO 562	
		Chlorine	Eschka method	AS 1038.8.1 BS 1016.106.6.1 ISO 587	
		Gross calorific value	Classical	AS 1038.5 (1998) ASTM D5865 BS 1016.105 (1992) ISO 1928 BS ISO 1928	
		Ultimate analysis	Classical	AS 1038.6.4 ASTM D5373 BS 1016.1.1 BS ISO 29541 ISO 29541	
Safety evaluation for transport of bulk materials	Solid bulk cargoes susceptible to liquefaction	Transportable moisture limit (TML)	Proctor/Fagerberg	In-house CBM P028	
Sample collection	Coals, coke, charcoal and related products	Not applicable	Mechanical sampling; Sampling from moving streams; Sampling from stationary lots;	ISO 21398	

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		Precision of sampling, sample preparation and testing	Mechanical sampling; Sampling from moving streams; Sampling from stationary lots;	AS 4264.4 ISO 18283	
		Not applicable	Sampling from a moving conveyor; Sampling from a stationary conveyor; Sampling from a stockpile;	AS 4264.1 (2009) ASTM D2234 BS 1017.1 (1989) ISO 13909.1 ISO 13909.2 ISO 13909.3 ISO 13909.4 ISO 13909.5 ISO 13909.6 ISO 13909.7 ISO 18283 BS ISO 13909.1 BS ISO 13909.2 BS ISO 13909.3 BS ISO 13909.4 BS ISO 13909.5 BS ISO 13909.6 BS ISO 13909.7	
			sampling plant inspection		

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