Alpha Resources, Inc. Certificate Of Analysis

AR-1905

COAL STANDARD (C, H, N)

LOT # 905212 LID # 783410

DRIED BASIS VALUE

WEIGHT PERCENT CARBON EXPANDED UNCERTAINTY	= =	77.1 1.4	
WEIGHT PERCENT HYDROGEN	=	1.88	
EXPANDED UNCERTAINTY WEIGHT PERCENT NITROGEN	=	0.24	Reference only
EXPANDED UNCERTAINTY	=	(1.0)	Keletence only

Method: ASTM D 5373

The material used in production of this standard was sampled in accordance with ARI 031. The precision values represent the expanded uncertainty (k=2) 95% confidence, obtained through analytical testing, and are given for reference only. Normal ASTM procedures should be employed when using this standard; this includes using the *reproducibility* and *repeatability* factors of the test method for establishing analytical uncertainty. When necessary, professional judgment is applied toward consideration of data and statistical information. The statistical analysis and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer at Alpha Resources.

The samples for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard. Recommended drying procedure: dry under a nitrogen atmosphere for a minimum of 70 minutes at 107° C +/- 3° C until a steady mass is achieved.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages. This is a Reference Material (RM). For good laboratory practice it is recommended that all standards be verified prior to use.

> EXPIRATION DATE THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING

CERTIFIED February 23, 2012

Kent Dyer