

Alpha Resources, Inc. Certificate Of Analysis

COAL STANDARD

AR-3703

LOT# 703399WAL99 LID ID# WAL99

Dried Basis Values

Mean ug/g Mercury = 0.12
Standard Deviation = 0.02

Mean ug/g Chlorine = 165
Standard Deviation = 35

Mean Weight Percent Sulfur = 0.45
Standard Deviation = 0.02

Mean Weight Percent Ash = 7.64
Standard Deviation = 0.69

Methods:

Sample Preparation ASTM D 2031
Mercury Analysis ASTM D 3684-94
Chlorine Analysis ASTM D 4208-97
Sulfur Analysis ASTM D 4239 Method C-97
Ash Analysis ASTM D 3174-97

Before use, the contents of the bottle should be mixed through vigorous shaking. The contents should not be exposed to air for a lengthy period of time.

Normal ASTM procedures should be employed when using this standard. This includes using the *reproducibility* and *repeatability* factors. Use the reproducibility factor when establishing the first set of data, and then establish an internal repeatability factor as your guideline.

The statistical analysis of the certification was performed by D.M. Reasons at Alpha Resources.

The overall direction and coordination of the analytical measurements leading to certification were performed by D.M. Reasons at Alpha Resources.

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.

EXPIRATION DATE

**THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF PURCHASE WHICH
APPEARS ON THE BOTTLE**

