

# Alpha Resources, Inc.

## Certificate Of Analysis

**CARBON AND SULFUR IN SOIL**  
**AR 4019**  
**LOT 61499**

<b>% CARBON</b>	<b>%SULFUR</b>
<b>MEAN = 0.102%</b>	<b>MEAN = 0.100%</b>
<b>ONE SIGMA = 0.008</b>	<b>ONE SIGMA = 0.005</b>
<b>TWO SIGMA = 0.016</b>	<b>TWO SIGMA = 0.010</b>
<b>RANGE = 0.086 - 0.118%</b>	<b>RANGE = 0.09 - 0.11%</b>

### NOTES

This data was reported using various induction and resistance type furnaces. The use of accelerants like vanadium pent oxide and tungsten oxide were used in the resistance furnace techniques in order to properly liberate the sulfur.

The data represents the mean value, one sigma standard deviation, two sigma standard deviation, and complete range of analysis.

There were no primary standards of this type of matrix available at the time of certification. Many types of reference materials were used in the certification process, ranging from steel to high purity inorganic for calibration.

The statistical analysis and overall and coordination leading to certification was performed by K.E. Dyer 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.

This is a certified reference material (CRM) without any traceability to primary standards, and should be verified prior to use, against a primary standard material or other reference materials provided by a governing agency such as N.I.S.T, when available.

CERTIFIED APRIL, 2000

