



World Class Accreditation

The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

SGS NORTH AMERICA, INC.

Henderson, KY

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Presented this 16th day of November 2009.



A handwritten signature in black ink, reading "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 1601.01
Valid to July 31, 2011

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SGS NORTH AMERICA, INC.
MINERAL SERVICES DIVISION
618 Bob Posey Street
Henderson, KY 42420
John Ray Phone: 270 827 1187

CHEMICAL

Valid To: July 31, 2011

Certificate Number: 1601.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on coal and water:

Test Method

Test

Coal: Thermal Evaluation:

ASTM D720	Free Swelling Index for Coal
ASTM D1412	Equilibrium Moisture
ASTM D1857	Fusibility of Coal and Coke Ash
ASTM D3173	Moisture in the Analysis Sample of Coal and Coke
ASTM D3174	Ash in the Analysis of Coal and Coke from Coal
ASTM D3175	Volatile Matter in Analysis Sample
ASTM D3302	Moisture in Coal, Total

Coal: Physical/Chemical Properties:

ASTM D409	Hardgrove Grindability Index
ASTM D4239	Sulfur in Coal and Coke Using High Temperature Tube Furnace Combustion, Method B
ASTM D5865	Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters

Test Method

Test

Coal: Preparation:

ASTM D2013

Preparing Coal Samples for Analysis

Water: Gravimetric:

Standard Methods 2540-C

Total Dissolved Solids

Standard Methods 2540-D

Total Suspended Solids

Water: Volumetric:

Standard Methods 2310-B

Acidity (titrimetric)

Standard Methods 2320-B

Alkalinity (titrimetric)

Standard Methods 2340-C

Hardness, Total (titrimetric, EDTA)

Standard Methods 4500-Cl-C

Chloride (titrimetric)

Water: Spectroscopic/Spectrophotometric:

EPA 200.7

Inductively Coupled Plasma; Fe and Mn

ASTM D516

Sulfate (turbidimetric)

Water: Electrometric:

Standard Methods 2510-B

Conductivity

Standard Methods 4500-H⁺-B

pH (electrometric)

