



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

**CITA Energy Services
11868 Fishing Point Drive
Newport News, VA 23606**

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1419

Certificate Number



ANAB Approval

Certificate Valid: 11/10/2017-11/24/2019
Version No. 002 Issued: 11/10/2017



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CITA Energy Services

11868 Fishing Point Drive

Newport News, VA 23606

Steven Van Liew 757-873-0165

cita@citalogistics.com

www.citalogistics.com

TESTING

Valid to: **November 24, 2019**

Certificate Number: **AT-1419**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Total Moisture in Coal	ASTM D 3302	Coal	Moisture Oven / Air Drying Oven
Proximate Analysis	ASTM D 3172	Coal	Grouping of Test Methods ASTM D 3173 ASTM D 3174 ASTM D 3175
Percent Residual Moisture in Coal	ASTM D 3173	Coal	Moisture Oven
Percent Ash in Coal	ASTM D 3174	Coal	Ashing Oven
Percent Volatile Matter in Coal	ASTM D 3175	Coal	Volatile Furnace
Percent Sulfur in Coal	ASTM D 4239	Coal	LECO 632 Sulfur Analyzer
Calorific Value in Coal	ASTM D 5865	Coal	PARR 6400 Calorimeter
Ultimate Analysis	ASTM D 3176	Coal	Grouping of Test Methods ASTM D 3302 ASTM D 3174 ASTM D 4239 ASTM D 5373
Percent Carbon, Hydrogen and Nitrogen in Coal	ASTM D 5373	Coal	LECO Truspec CHN Analyzer
Sample Preparation for Analysis	ASTM D 2013	Coal	Holmes 60 Mesh Pulverizer
Free Swelling Index of Coal	ASTM D 720	Coal	FSI Apparatus
Coal Ash Fusibility	ASTM D 1857	Coal	Ash Fusibility Oven

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Major and Minor Elements in Coal, Coke, and Solid Residues	ASTM D 6349	Coal	Teledyne Prism ICP
Oxidation in Coal by Alkali Extraction	ASTM D 5263	Coal	Spectrophotometer
Using Dilatometer to Determine Swelling Properties of Coal	ASTM D 5515	Coal	Dilatometer
Plastic Properties of Coal by Constant-Torque Gieseler Plastometer	ASTM D 2639	Coal	Gieseler Plastometer

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1419.



Vice President

