



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

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 17025:2017

while demonstrating technical competence in the field of

TESTING

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

AT-1419

Certificate Number


ANAB Approval

Certificate Valid Through: 11/24/2021
Version No. 004 Issued: 11/08/2019



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



ANSI National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CITA Energy Services

11868 Fishing Point Drive
Newport News, VA 23606

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TESTING

Valid to: **November 24, 2021**

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

