

Julie Weisz Energy Laboratories 400 West Boxelder Road Gillette, WY 82718 USA



Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 01/23/2023

Close Date: 03/09/2023

Report Issued Date: 03/13/2023



March 13, 2023

Julie Weisz Energy Laboratories 400 West Boxelder Road Gillette, WY 82718

Enclosed is your final report for ERA's SOIL-121 Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's SOIL-121 Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the most current TNI Fields of Proficiency Testing (FoPT) table the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the table and the evaluation criteria contained in the 2016 TNI Standard, Volume 3. If the analyte is not included in the TNI FoPT table, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 730002268).

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (QuiK™Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have many years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be useful in helping you work through your technical issues.

Thank you for your participation in ERA's SOIL-121 Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

Craig Huff

Senior Technical Manager

attachments





Report Recipient	Contact/Phone Number	Reporting Type						
No Recipients Selected								



SOIL-121 Definitions & Study Discussion

Study Dates: 01/23/2023 - 03/09/2023 Report Issued: 03/13/2023

SOIL Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the most current TNI Fields of Proficiency Testing (FoPT) table. The Assigned Values for the Organic Proficiency Testing Standards are equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation as applicable. The assigned values for the Inorganic Proficiency Testing Standards, with the exception of the TCLP Metals in Soil and Total Organic Carbon (TOC) in the Nutrients in Soil sample, are equal to the maximum amount of the parameter available in the standard by applicable EPA methodologies. The assigned values for the TCLP metals and TOC are equal to the mean of the study data, after the removal of outliers. All parameters not added to the standard are given an Assigned Value of "< PTRL", per the guidelines contained in the 2016 TNI Standard. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT table or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

Acceptable = Reported Value falls within the

Acceptance Limits.

Not Acceptable = Reported Value falls outside the

Acceptance Limits.

No Evaluation = Reported Value cannot be evaluated.

Not Reported = No Value reported.

The Method Description is the method the laboratory reported to ERA.

SOIL Study Discussion

ERA's SOIL-121 Proficiency Testing (PT) study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) table.

ERA's SOIL-121 study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes in the standards met the acceptance criteria contained in the 2016 TNI Standard and the criteria contained in the most current TNI FoPT table.

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's SOIL-121 Proficiency Testing study reports shall not be reproduced except in its entirety and not without the permission of the participating laboratory. The report must not be used by the participating laboratories to claim product endorsement any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's SOIL Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.





Ver. 1 Page 5 of 9



SOIL-121 Laboratory Exception Report

Julie Weisz QA Officer Energy Laboratories 400 West Boxelder Road Gillette, WY 82718 (307) 686-7175-2044

EPA ID: WY00006
ERA Customer Number: E351102
Report Issued: 03/13/2023
Study Dates: 01/23/2023 - 03/09/2023

Not Acceptable Evaluations

There were no Not Acceptable evaluations for this study.





16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com



Final Report Results For Laboratory Energy Laboratories





Study #: SOIL-121



Final Evaluation Report

Study: SOIL-121

ERA Customer Number: E351102

Laboratory Name: Energy Laboratories

Inorganic Results





Ver. 1 Page 8 of 9



SOIL-121 Final Evaluation Report

A Waters Company

Julie Weisz QA Officer Energy Laboratories 400 West Boxelder Road Gillette, WY 82718 (307) 686-7175-2044 EPA ID: WY00006
ERA Customer Number: E351102
Report Issued: 03/13/2023

Study Dates: 01/23/2023 - 03/09/2023

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
SOIL Ignitability/Flashpoint (cat# 874, lot# D121-979)												
1780	Ignitability/Flashpoint	°F	110	106	89.0 - 123	Acceptable	EPA 1010A 2002	2/2/2023	0.391	108	4.33	Brandon Bowe





CERTIFICATE OF EXCELLENCE

In recognition of the quality of your laboratory in proficiency testing for

SOIL-121

Energy Laboratories

is issued this certificate of achievement by ERA. This laboratory has been recognized as a Laboratory of Excellence for achieving 100% acceptable data in this study which included 259 participating laboratories. This achievement is a demonstration of the superior quality of the laboratory in evaluation of the standards listed below.

Ignitability/Flashpoint

CAR