



6390 Joyce Drive # 100 Golden, CO 80403 Phone 303-940-0033 Fax 866-283-0269 www.phenova.com

May 27, 2021

Ms. Kelley Keenan Environmental Testing Solutions, Inc. 351 Depot Street Asheville, NC 28801 USA

Dear Kelley,

Thank you for participating in the WP0421 Water Pollution Proficiency Testing Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova. This report presents some additional sections and features which will give you more information on the study data for the standards that were reported by your laboratory and more information regarding the overall performance of your laboratory in relation to other study participants.

The enclosed report is in two sections, the "Evaluation Report" and the "Statistical Report". The "Evaluation Report" contains the evaluation of your reported data as well the reported method, analysis date and analyst. The "Evaluation Report" is an updated and enhanced version of the reports you previously received at the conclusion of our PT studies. The "Statistical Report" contains your passing percentage as well as statistics from the study for the analytes reported by your laboratory.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you.

Thank you again for participating in the WP0421 Water Pollution Proficiency Testing Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 866-942-2978.

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Report Definitions:

Assigned Value The Assigned

The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the National Environmental Laboratory Accreditation Conference Institute (TNI) criteria (ref: TNI FOT tables, TNI PT Committee) and other documents distributed by accrediting

agencies as applicable.

Evaluation Limits Acceptance Limits are derived from fixed limits, coefficients, constants

and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version),the National Environmental Laboratory Accreditation Conference Institute (TNI) criteria (ref: TNI FOT tables, TNI PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation

Acceptable The reported value falls within the Acceptance Limits.

Not Acceptable The reported value falls outside the Acceptance Limits.

No Evaluation The reported value is non-numeric and can not be evaluated.

NR As required by the TNI standards and requested by state authorities,

any analyte purchased but not reported by your facility is listed as NR

(Not Reported).

Study Mean and Standard Deviation

The mean and standard deviation are calculated from the study data using robust statistical calculations when possible. Other statistical calculations may be used if robust statistical calculations are not possible. The displayed values are independent of any statistical calculations required for the calculation of the analyte evaluation limits.

This report must not be reproduced except in full, without the written approval of Phenova.

Various aspects of Phenova's proficiency testing schemes can from time to time be subcontracted. If subcontracting occurs, it is placed with a competent and qualified subcontractor and Phenova is responsible for all work performed.

This report must not be used to claim product certification, approval, or endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the federal government.

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State Regulatory Agency Request(s):

Phenova has been authorized to send a copy of your WP0421 final results to the following state agencies: KY, NC and SC

Other Regulatory Agency Request(s):

No requests were made to send a copy of your WP0421 final results to an agency.

Third Party Request(s):

No requests were made to send a copy of your WP0421 final results to a third party.

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Final Report - Water Pollution Proficiency Testing

Study: WP0421

Opening Date: April 5, 2021 - Closing Date: May 20, 2021

Laboratory: Environmental Testing Solutions, Inc.

Ms. Kelley Keenan

351 Depot Street Asheville, NC 28801 828-350-9364

USA

EPA Lab ID: NC01230

Contact:

Minerals 2 - Hardness (PT-MIN2-WP)							Lot #:	Lot #: 8221-102		
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1035	Calcium					mg/L	90.5		77.0 - 104	NR
1550	Calcium Hardness (as CaCO3)					mg/L	226		192 - 260	NR
1755	Total Hardness (as CaCO3)	4/16/2021	KEK	20047410	SM 2340 C-2011	mg/L	264	248	224 - 303	Acceptable
1085	Magnesium					mg/L	9.18		7.81 - 10.6	NR
1125	Potassium					mg/L	20.9		16.7 - 25.0	NR
1155	Sodium					mg/L	56.4		45.1 - 67.7	NR





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PT Study Score Report

EPA ID: NC01230

Laboratory: Environmental Testing Solutions, Inc.

351 Depot Street Asheville, NC 28801

USA

	Number of	Number of	
Study Number	Reported Results	Passing Results	Percent Passing
WP0421	1	1	100%

Report Definitions:

Number of Reported Results The number of results reported which could be evaluated. Results receiving an

evaluation of "NR" or "No Evaluation" are not included.

"Check for Error".

Percent Passing The percentage of results reported receiving an evaluation of "Acceptable" or

"Check for Error".





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Statistical Summary Report - Water Pollution Proficiency Testing

Opening Date: April 5, 2021 - Closing Date: May 20, 2021

Laboratory: Environmental Testing Solutions, Inc. Contact: Ms. Kelley Keenan 351 Depot Street

828-350-9364

Asheville, NC 28801 EPA Lab ID: NC01230 USA

Mine	erals 2 - Hardness (PT-MIN2	Lot #: 8221-102				
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
1035	Calcium	mg/L	88.6	4.13	85.1	115
1550	Calcium Hardness (as CaCO3)	mg/L	219	10.7	85.0	115
1755	Total Hardness (as CaCO3)	mg/L	259	12.2	84.8	115
1085	Magnesium	mg/L	9.04	0.385	85.1	115
1125	Potassium	mg/L	20.8	1.28	79.9	120
1155	Sodium	mg/L	56.1	2.62	80.0	120