

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

August 13, 2020

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

Dear Kelley,

Thank you for participating in the WSM0720 Water Supply 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 WSM0720 Water Supply 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.

Report Issue Date - 8/13/2020 Report Page - 1 of 10





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#### **Report Definitions:**

Assigned Value 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.

NRAs 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

The mean and standard deviation are calculated from the study data Standard Deviation 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.





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#### State Regulatory Agency Request(s):

Phenova has been authorized to send a copy of your WSM0720 final results to the following state agencies:

NC

Other Regulatory Agency Request(s):

No requests were made to send a copy of your WSM0720 final results to an agency.

Third Party Request(s):

No requests were made to send a copy of your WSM0720 final results to a third party.

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### **Final Report - Water Supply Proficiency Testing**

Study: WSM0720

Opening Date: July 21, 2020 - Closing Date: August 6, 2020

Laboratory: Environmental Testing Solutions, Inc.

Ms. Kelley Keenan 828-350-9364

351 Depot Street Asheville, NC 28801

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USA

EPA Lab ID: NC01230

Contact:

Mici	ro (F	Presence/Absence	) (PT-MIC-WS)						Lot #	<b>#: 5330-04</b>
				Complete A	Analyte Eval	uation				
	The co	omplete analyte evaluation(s) are	based on the results for the		mples. The Eva		Acceptable" if nine of ter	n samples are A	Acceptable, and	no false
NELAC Code			Analyte					Evaluati	ion	
25	2530 Fecal Coliform							NR		
2525 E.Coli								Accepta	able	
2500 Total Coliform							Accepta	able		
				Individual S	Sample Eval	luation				
NELAC Code		Analyte	Analysis Date	Analyst	Method Code	Ме	thod Description	Assigned Value	Result	Evaluation
Sample										
2530	Fecal Coliform							Presence		NR
2525	E.Co	li	7/22/2020	KEK	20212413	SM 9223	SM 9223 B-2004 (Colilert) 22nd ED		Presence	Acceptable
2500	Total	Coliform	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED		Presence	Presence	Acceptable
Sample	2									
2530	Feca	l Coliform						Absence		NR
2525	E.Co	li	7/22/2020	KEK	20212413	SM 9223	B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable
2500	Total	Total Coliform 7/22/2020 KEK 20212413 SM 9223 B-		B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable			
Sample	3		<u> </u>		· •					
2530	Feca	l Coliform						Absence		NR
2525	E.Co	li	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED		Absence	Absence	Acceptable
2500	Total	Coliform	7/22/2020	KEK	20212413	SM 9223	B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable





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Opening Date: July 21, 2020 - Closing Date: August 6, 2020

Laboratory: Environmental Testing Solutions, Inc.

351 Depot Street Asheville, NC 28801 USA Contact: Ms. Kelley Keenan

828-350-9364

EPA Lab ID: NC01230

MIICI	o (Presence/Absence	) (P1-WIC-VV3)	cont a				LOL#	<sup>‡</sup> : 5330-0
IELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Assigned Value	Result	Evaluation
Sample	4							
2530	Fecal Coliform					Presence		NR
2525	E.Coli	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Presence	Presence	Acceptable
2500	Total Coliform	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Presence	Presence	Acceptable
Sample	5							
2530	Fecal Coliform					Absence		NR
2525	E.Coli	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable
2500	Total Coliform	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable
Sample	6							
2530	Fecal Coliform					Presence		NR
2525	E.Coli	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Presence	Presence	Acceptable
2500	Total Coliform	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Presence	Presence	Acceptable
Sample	7			·				
2530	Fecal Coliform					Absence		NR
2525	E.Coli	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable
2500	Total Coliform	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Presence	Presence	Acceptable
Sample	8							
2530	Fecal Coliform					Absence		NR
2525	E.Coli	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable
2500	Total Coliform	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Presence	Presence	Acceptable





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#### **Final Report - Water Supply Proficiency Testing**

Study: WSM0720

USA

Opening Date: July 21, 2020 - Closing Date: August 6, 2020

Laboratory: Environmental Testing Solutions, Inc.

Ms. Kelley Keenan 828-350-9364

351 Depot Street Asheville, NC 28801

EPA Lab ID: NC01230

Contact:

Micr	o (Presence/Absence	) (PT-MIC-WS)	cont'd				Lot #	‡: 5330-0 <sub>4</sub>
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Assigned Value	Result	Evaluation
Sample	9							
2530	Fecal Coliform					Absence		NR
2525	E.Coli	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable
2500	Total Coliform	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Presence	Presence	Acceptable
Sample	10	· ·						
2530	Fecal Coliform					Absence		NR
2525	E.Coli	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable
2500	Total Coliform	7/22/2020	KEK	20212413	SM 9223 B-2004 (Colilert) 22nd ED	Absence	Absence	Acceptable





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#### **Final Report - Water Supply Proficiency Testing**

Study: WSM0720

Opening Date: July 21, 2020 - Closing Date: August 6, 2020

Laboratory: Environmental Testing Solutions, Inc.

Ms. Kelley Keenan 828-350-9364

351 Depot Street Asheville, NC 28801

Contact:

EPA Lab ID: NC01230 USA

Sou	Source Water Micro (PT-SW-WS)									<b>#: 5330-14</b>
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
2530	Fecal Coliform, MF					CFU/100 mL	87		48 - 157	NR
2525	E. Coli, MF					CFU/100 mL	106		60 - 187	NR
2500	Total Coliform, MF					CFU/100 mL	123		76 - 199	NR
2530	Fecal Coliform, MPN					MPN/100 mL	150		85.9 - 263	NR
2525	E. Coli, MPN	7/22/2020	KEK	20211614	SM 9223 B-2004 (Colilert Quanti-Tray) 22nd ED	MPN/100 mL	115	165.8	59.6 - 221	Acceptable
2500	Total Coliform, MPN					MPN/100 mL	137		87.5 - 216	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
WSM0720	23	23	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 Supply Proficiency Testing** 

Study: WSM0720

Opening Date: July 21, 2020 - Closing Date: August 6, 2020

Laboratory: Environmental Testing Solutions, Inc. Contact: Ms. Kelley Keenan 828-350-9364

351 Depot Street Asheville, NC 28801

EPA Lab ID: NC01230 USA

	o (Presence/Absence) (I					#: 5330-04
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A
Sample						
2530	Fecal Coliform		N/A	N/A	N/A	N/A
2525	E.Coli		N/A	N/A	N/A	N/A
2500	Total Coliform		N/A	N/A	N/A	N/A





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Contact: Ms. Kelley Keenan

351 Depot Street 828-350-9364

Asheville, NC 28801 USA EPA Lab ID: NC01230

Sou	rce Water Micro (PT-SW-W		Lot	#: 5330-14		
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
2530	Fecal Coliform, MF	CFU/100 mL	90.5	26.4	55.2	180
2525	E. Coli, MF	CFU/100 mL	110	28.6	56.6	176
2500	Total Coliform, MF	CFU/100 mL	119	21.7	61.8	162
2530	Fecal Coliform, MPN	MPN/100 mL	156	43.7	57.3	175
2525	E. Coli, MPN	MPN/100 mL	115	38.1	51.8	192
2500	Total Coliform, MPN	MPN/100 mL	137	29.3	63.9	158