



February 13, 2013

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

Dear Kelley,

Thank you for participating in the WSM0113 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 WSM0113 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.





<b>Report Definitions:</b>	
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 (NELAC) criteria (ref: NELAC FOT tables, NELAC 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 (NELAC) criteria (ref: NELAC PT FOT tables, NELAC 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 NELAC 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.

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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.





State Regulatory Agency Request(s):

Phenova has been authorized to send a copy of your WSM0113 final results to the following state agencies: NC

Other Regulatory Agency Request(s):

No requests were made to send a copy of your WSM0113 final results to an agency.

Third Party Request(s):

No requests were made to send a copy of your WSM0113 final results to a third party.





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

## Study: WSM0113

#### Opening Date: January 14, 2013 - Closing Date: February 7, 2013

Laboratory:	Environmental Testing Solutions, Inc. 351 Depot Street	Contact:	Ms. Kelley Keenan 828-350-9364
	Asheville, NC 28801 USA	EPA Lab ID:	NC01230

		esence/Absence								<b>: 5157-0</b>
				Complete	Analyte Eval	uation				
	The comp	lete analyte evaluation(s) are	based on the results for the		mples. The Eva ves are reported		Acceptable" if nine of ten	samples are A	cceptable, and r	no false
NELA Cod	-		Analyte					Evaluati	on	
253	30 F	ecal Coliform						NR		
252	25 E	Coli						Accepta	able	
250	)0 T	otal Coliform						Accepta	able	
				Individual	Sample Eval	uation				
IELAC Code		Analyte	Analysis Date	Analyst	Method Code	Ме	thod Description	Assigned Value	Result	Evaluation
Sample										
2530	Fecal Co	bliform						Absence		NR
2525	E.Coli		1/15/2013	KEK	20212402	SM 9223	B (Colilert®) Rev.21st ED 2005	Absence	Absence	Acceptable
2500	Total Co	liform	1/15/2013	KEK	20212402	SM 9223	B (Colilert®) Rev.21st ED 2005	Absence	Absence	Acceptable
Sample	2									
2530	Fecal Co	bliform						Absence		NR
2525	E.Coli		1/15/2013	KEK	20212402	SM 9223	B (Colilert®) Rev.21st ED 2005	Absence	Absence	Acceptable
2500	Total Co	liform	1/15/2013	KEK	20212402	SM 9223	B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable
Sample	3									
2530	Fecal Co	bliform						Presence		NR
2525	E.Coli		1/15/2013	KEK	20212402	SM 9223	B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable
2500	Total Co	liform	1/15/2013	KEK	20212402	SM 9223	B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable





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	351 Depot Street
	Asheville, NC 28801
	USA

Ms. Kelley Keenan 828-350-9364

EPA Lab ID: NC01230

Contact:

Mic	o (Presence/Absence)	(PT-MIC-WS)	cont'd				Lot #	<mark>‡: 5157-0</mark> 4
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Assigned Value	Result	Evaluation
Sample	- 4			1			II	
2530	Fecal Coliform					Presence		NR
2525	E.Coli	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable
2500	Total Coliform	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable
Sample	5						1	
2530	Fecal Coliform					Absence		NR
2525	E.Coli	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Absence	Absence	Acceptable
2500	Total Coliform	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable
Sample	6			II.				
2530	Fecal Coliform					Absence		NR
2525	E.Coli	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Absence	Absence	Acceptable
2500	Total Coliform	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Absence	Absence	Acceptable
Sample	7					1		
2530	Fecal Coliform					Presence		NR
2525	E.Coli	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable
2500	Total Coliform	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable
Sample	8	· · ·					·	
2530	Fecal Coliform					Presence		NR
2525	E.Coli	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable
2500	Total Coliform	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st ED 2005	Presence	Presence	Acceptable





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	Asheville, NC 28801
	USA

Ms. Kelley Keenan 828-350-9364

EPA Lab ID: NC01230

Micr	o (Presence/Absence) (PT·	MIC-WS	) cont'd				Lot #	<b>#: 5157-04</b>
NELAC	Analyte	Analysis	Analyst	Method	Method Description	Assigned	Result	Evaluation
Code		Date		Code		Value		
Sample	9							
2530	Fecal Coliform					Absence		NR
2525	E.Coli	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st	Absence	Absence	Acceptable
					ED 2005			
2500	Total Coliform	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st	Presence	Presence	Acceptable
					ED 2005			
Sample	10			·				
2530	Fecal Coliform					Absence		NR
2525	E.Coli	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st	Absence	Absence	Acceptable
					ED 2005			
2500	Total Coliform	1/15/2013	KEK	20212402	SM 9223 B (Colilert®) Rev.21st	Presence	Presence	Acceptable
					ED 2005			

Contact:





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

## Study: WSM0113

#### Opening Date: January 14, 2013 - Closing Date: February 7, 2013

Laboratory:	Environmental Testing Solutions, Inc. 351 Depot Street	Contact:	Ms. Kelley Keenan 828-350-9364
	Asheville, NC 28801 USA	EPA Lab ID:	NC01230

Source Water Micro (PT-SW-WS)						<b>#: 5157-14</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	123		80 - 189	NR
2525	E. Coli, MF					CFU/100 mL	120		74 - 195	NR
2500	Total Coliform, MF					CFU/100 mL	139		94 - 206	NR
2530	Fecal Coliform, MPN					MPN/100 mL	190		117 - 311	NR
2525	E. Coli, MPN	1/15/2013	KEK	20211409	SM 9223 B (Colilert® Quanti-Tray®) Rev.21st ED 2005	MPN/100 mL	171	155.3	105 - 277	Acceptable
2500	Total Coliform, MPN					MPN/100 mL	177		110 - 284	NR





## **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
WSM0113	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.
Number of Passing Results	The number of results reported receiving an evaluation of "Acceptable" or "Check for Error".
Percent Passing	The percentage of results reported receiving an evaluation of "Acceptable" or "Check for Error".





6390 Joyce Drive # 100 Golden, CO 80403 
 Phone
 303-940-0033

 Fax
 866-283-0269

 www.phenova.com

# Statistical Summary Report - Water Supply Proficiency Testing

## Study: WSM0113

#### Opening Date: January 14, 2013 - Closing Date: February 7, 2013 Laboratory: Environmental Testing Solutions, Inc. Contact:

Laboratory: Environmental Testing Solutions, Inc. 351 Depot Street Asheville, NC 28801

USA

Ms. Kelley Keenan 828-350-9364

EPA Lab ID: NC01230

Micro (Presence/Absence) (PT-MIC-WS)					Lot #: 5157-04		
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %	
Sample	1						
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 2							
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			1				
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			1		1	T	
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			1	1	1	1	
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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# **Statistical Summary Report - Water Supply Proficiency Testing**

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Laboratory: Environmental Testing Solutions, Inc. 351 Depot Street

Asheville, NC 28801

USA

Ms. Kelley Keenan 828-350-9364

EPA Lab ID: NC01230

Contact:

Sou	Source Water Micro (PT-SW-WS) Lot #: 5157-1							
NELAC	Analyte	Units	Study	Study	Low Acceptance	High Acceptance		
Code			Mean	Standard	Limit %	Limit %		
				Deviation				
2530	Fecal Coliform, MF	CFU/100 mL	121	28.2	65.0	154		
2525	E. Coli, MF	CFU/100 mL	123	33.2	61.7	163		
2500	Total Coliform, MF	CFU/100 mL	143	31.5	67.6	148		
2530	Fecal Coliform, MPN	MPN/100 mL	179	76.4	61.6	164		
2525	E. Coli, MPN	MPN/100 mL	171	41.8	61.4	162		
2500	Total Coliform, MPN	MPN/100 mL	177	42.6	62.1	160		