Kelley E. Keenan Environmental Testing Solutions, Inc. PO Box 7565 Asheville, NC 28802-7565



WatR<sup>™</sup>Supply Study

Open Date: 07/06/10

Close Date: 08/20/10

Report Issued Date: 09/10/10

September 10, 2010

Kelley E. Keenan Environmental Testing Solutions, Inc. PO Box 7565 Asheville, NC 28802-7565

Enclosed is your final report for ERA's WS-168 WatR™Supply 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 WS-168 WatR™Supply Proficiency Testing (PT) study have been evaluated using the following tiered approach. If the analyte is listed in the most current National Environmental Laboratory Accreditation Conference (NELAC) PT Field of Testing tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the NELAC FoPT tables. If the analyte is not included in the NELAC FoPT tables, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

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<sup>™</sup> 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 well over three hundred 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 helpful in helping you work through your technical issues.

Thank you for your participation in ERA's WS-168 WatR™Supply Proficiency Testing study. If you have any questions, please contact the proficiency testing department or myself at 1-800-372-0122.

Sincerely,

Ay CM Brene

Jay R. McBurney Quality Program Manager

attachments jrm

Report Recipient	Contact/Phone Number	Reporting Type
North Carolina (WS)	Cindy Price / 919-733-7308	All Analytes

# WS-168 Definitions & Study Discussion

### Study Dates: 07/06/10 - 08/20/10

### WS Study Definitions

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

The ERA Assigned Values are compliant with the most current USEPA/NELAC FoPT tables. A parameter not added to the standard is given an Assigned Value of "0" per the guidelines contained in the USEPA's Criteria Document and NELAC standards.

The Acceptance Limits are established per the criteria contained in the most current USEPA/NELAC FoPT tables, or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

Acceptable	<ul> <li>Reported Value falls within the Acceptance Limits.</li> </ul>
Not Acceptable	<ul> <li>Reported Value falls outside the Acceptance Limits.</li> </ul>
No Evaluation	= Reported Value cannot be evaluated.
Not Reported	= No Value reported.

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

### Report Issued: 09/10/10

#### WS Study Discussion

ERA's WS-168 WatR<sup>™</sup>Supply Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the USEPA's National Standards for Water Proficiency Testing Studies Criteria Document (December 1998), and the criteria contained in the most current NELAC FoPT tables.

ERA's WS-168 WatR™Supply 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 USEPA's National Criteria Document for Water Proficiency Testing Studies, December 1998, and the criteria contained in the most current NELAC FoPT tables.

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 WS-168 WatR<sup>™</sup>Supply study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by 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 WatR™Supply Proficiency Testing program, please contact Jay McBurney, Quality Program Manager, or the proficiency testing department at 1-800-372-0122.



# Study: WS-168

## ERA Customer Number: E559701

# Laboratory Name: Environmental Testing Solutions, Inc.

**Inorganic Results** 





# WS-168 Final Complete Report

### Kelley E. Keenan Supervisor Environmental Testing Solutions, Inc. PO Box 7565 Asheville, NC 28802-7565 828-350-9364

 EPA ID:
 NC01230

 ERA Customer Number:
 E559701

 Report Issued:
 09/10/10

 Study Dates:
 07/06/10 - 08/20/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description		
WS Ind	NS Inorganics (cat# 591)								
0027	Alkalinity as CaCO3	mg/L		117	105 - 129	Not Reported			
1575	Chloride	mg/L	[	26.2	23.1 - 29.4	Not Reported			
1610	Conductivity at 25°C	µmhos/cm		454	409 - 499	Not Reported			
0010	Fluoride	mg/L		2.61	2.35 - 2.87	Not Reported			
1820	Nitrate + Nitrite as N	mg/L	[	8.69	7.82 - 9.56	Not Reported	[		
0009	Nitrate as N	mg/L	8.70	8.69	7.82 - 9.56	Acceptable	SM4500NO3- D		
1125	Potassium	mg/L	I	29.6	25.5 - 33.6	Not Reported			
0145	Sulfate	mg/L	I	33.0	28.1 - 37.4	Not Reported			
0024	Total Dissolved Solids at 180°C	mg/L		401	258 - 545	Not Reported			





# Study: WS-168

## ERA Customer Number: E559701

# Laboratory Name: Environmental Testing Solutions, Inc.

**Microbiology Results** 





# WS-168 Final Complete Report

### Kelley E. Keenan Supervisor Environmental Testing Solutions, Inc. PO Box 7565 Asheville, NC 28802-7565 828-350-9364

EPA ID:	NC01230
<b>ERA Customer Num</b>	ber: E559701
Report Issued:	09/10/10
Study Dates:	07/06/10 - 08/20/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS Mi	crobE™ (Coliforms) (cat# 080A)						
0254	Total Coliforms - Sample 1	CFU/100mL	Absence	Presence	Presence	Not Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0254	Total Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0255	Fecal Coliforms - Sample 1	CFU/100mL		Absence	Absence	Not Reported	
0255	Fecal Coliforms - Sample 2	CFU/100mL	[	Absence	Absence	Not Reported	
0255	Fecal Coliforms - Sample 3	CFU/100mL	I	Presence	Presence	Not Reported	
0255	Fecal Coliforms - Sample 4	CFU/100mL		Presence	Presence	Not Reported	
0255	Fecal Coliforms - Sample 5	CFU/100mL		Absence	Absence	Not Reported	
0255	Fecal Coliforms - Sample 6	CFU/100mL		Presence	Presence	Not Reported	
0255	Fecal Coliforms - Sample 7	CFU/100mL		Absence	Absence	Not Reported	
0255	Fecal Coliforms - Sample 8	CFU/100mL		Absence	Absence	Not Reported	
0255	Fecal Coliforms - Sample 9	CFU/100mL		Absence	Absence	Not Reported	
0255	Fecal Coliforms - Sample 10	CFU/100mL		Absence	Absence	Not Reported	
0255	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 7	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT
0255	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT

### Total Coliforms Evaluation : Not Acceptable Fecal Coliforms Evaluation : Not Reported

### E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli, Samples 3, 4 and 6 Total Coliform Organism - Enterobacter cloacae, Samples 1, 2 and 7 Negative (1) Coliform Organism - Proteus mirabilis, Sample 9 Negative (2) Coliform Organism - Pseudomonas aeruginosa, Sample 10 Blank - No Organism, Samples 5 and 8





# WS-168 Final Complete Report

### Kelley E. Keenan Supervisor Environmental Testing Solutions, Inc. PO Box 7565 Asheville, NC 28802-7565 828-350-9364

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 E559701

 Report Issued:
 09/10/10

 Study Dates:
 07/06/10 - 08/20/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	
WS WS	WS WS SourceWatR™ MicrobE™ (cat# 595)							
2500	Total Coliforms (MF)	CFU/100mL		19.0	9.00 - 37.0	Not Reported		
2530	Fecal Coliforms (MF)	CFU/100mL		8.00	1.00 - 52.0	Not Reported		
2525	E.coli (MF)	CFU/100mL		15.0	6.00 - 38.0	Not Reported		
2500	Total Coliforms (MPN)	MPN/100mL		23.1	12.7 - 42.0	Not Reported		
2530	Fecal Coliforms (MPN)	MPN/100mL		22.2	11.9 - 41.4	Not Reported		
2525	E.coli (MPN)	MPN/100mL	16.9	23.4	12.7 - 43.2	Acceptable	SM9223 COLertQT	



