



A Waters Company

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WS-174  **Final Report**

WatR™ Supply Proficiency Testing

WatR™ Supply Study

Open Date: 01/10/11

Close Date: 02/24/11

Report Issued Date: 03/16/11



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March 16, 2011

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Enclosed is your final report for ERA's WS-174 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-174 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™ 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-174 WatR™ Supply Proficiency Testing study. If you have any questions, please contact the proficiency testing department, or myself, at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink that reads "Jay R. McBurney".

Jay R. McBurney
Quality Program Manager

attachments
jrm



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

WS-174 Definitions & Study Discussion

Study Dates: 01/10/11 - 02/24/11

Report Issued: 03/16/11

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 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 USEPA/NELAC FoPT tables, 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.

WS Study Discussion

ERA's WS-174 WatR™ 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-174 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-174 WatR™ 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-174**

ERA Customer Number: **E559701**

Laboratory Name: **Environmental Testing
Solutions, Inc.**

Inorganic Results





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WS-174 Final Complete Report

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EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

NC01230
E559701
03/16/11
01/10/11 - 02/24/11

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS Inorganics (cat# 591)							
0027	Alkalinity as CaCO3	mg/L		48.7	43.8 - 53.6	Not Reported	
1575	Chloride	mg/L		30.3	26.9 - 33.9	Not Reported	
1610	Conductivity at 25°C	µmhos/cm		615	554 - 677	Not Reported	
0010	Fluoride	mg/L		3.96	3.56 - 4.36	Not Reported	
1820	Nitrate + Nitrite as N	mg/L		5.70	5.10 - 6.27	Not Reported	
0009	Nitrate as N	mg/L	5.12	5.70	5.13 - 6.27	Not Acceptable	SM4500NO3- D
1125	Potassium	mg/L		24.1	20.8 - 27.6	Not Reported	
0145	Sulfate	mg/L		147	130 - 164	Not Reported	
0024	Total Dissolved Solids at 180°C	mg/L		410	263 - 557	Not Reported	



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Laboratory Name: **Environmental Testing
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Microbiology Results





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NC01230
E559701
03/16/11
01/10/11 - 02/24/11

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS MicrobE™ (Coliforms) (cat# 080D)							
0254	Total Coliforms - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 7	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0254	Total Coliforms - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0255	Fecal Coliforms - Sample 1	CFU/100mL		Presence	Presence	Not Reported	
0255	Fecal Coliforms - Sample 2	CFU/100mL		Presence	Presence	Not Reported	
0255	Fecal Coliforms - Sample 3	CFU/100mL		Absence	Absence	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		Absence	Absence	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	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 7	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT
0255	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223B COLILERT

Total Coliforms Evaluation : Acceptable

Fecal Coliforms Evaluation : Not Reported

E.coli Evaluation : Acceptable

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





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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS WS SourceWatR™ MicrobE™ (cat# 595)							
2500	Total Coliforms (MF)	CFU/100mL		27.0	13.0 - 54.0	Not Reported	
2530	Fecal Coliforms (MF)	CFU/100mL		10.0	1.00 - 86.0	Not Reported	
2525	E.coli (MF)	CFU/100mL		24.0	11.0 - 54.0	Not Reported	
2500	Total Coliforms (MPN)	MPN/100mL		57.6	29.6 - 112	Not Reported	
2530	Fecal Coliforms (MPN)	MPN/100mL		42.9	18.6 - 98.8	Not Reported	
2525	E.coli (MPN)	MPN/100mL	48.8	56.3	29.2 - 108	Acceptable	SM9223B COLertQT

