



A Waters Company

**Pam M. Varner
Analytical Services Inc
110 Technology Pkwy
Norcross, GA 30092**

WS-175



Final Report

WatR™ Supply Proficiency Testing

WatR™ Supply Study

Open Date: 02/07/11

Close Date: 03/24/11

Report Issued Date: 04/13/11



A Waters Company

April 13, 2011

Pam M. Varner
Analytical Services Inc
110 Technology Pkwy
Norcross, GA 30092

Enclosed is your final report for ERA's WS-175 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-175 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-175 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



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type
Florida	Steve Arms / 904-791-1502	All Analytes
Georgia	Lynne Grubb / 404-657-3189	All Analytes
North Carolina (WP)	Dana Satterwhite / 919-733-3908 x 243	All Analytes

WS-175 Definitions & Study Discussion

Study Dates: 02/07/11 - 03/24/11

Report Issued: 04/13/11

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-175 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-175 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-175 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-175**

ERA Customer Number: **A520001**

Laboratory Name: **Analytical Services Inc**

Inorganic Results





A Waters Company

WS-175 Final Complete Report

Pam M. Varner
PT Manager
Analytical Services Inc
110 Technology Pkwy
Norcross, GA 30092
770-734-4200

EPA ID:
ERA Customer Number:
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Study Dates:

GA00051
A520001
04/13/11
02/07/11 - 03/24/11

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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WS Hardness (cat# 555)

1035	Calcium	mg/L	30.5	32.2	28.7 - 36.3	Acceptable	EPA 200.7
1085	Magnesium	mg/L	14.5	14.1	12.7 - 15.7	Acceptable	EPA 200.7
0029	Sodium	mg/L	15.7	16.4	14.4 - 18.1	Acceptable	EPA 200.7
0025	Calcium Hardness as CaCO ₃	mg/L	76.2	80.4	71.7 - 90.7	Acceptable	SM2340B
1755	Total Hardness as CaCO ₃	mg/L	136	138	124 - 155	Acceptable	SM2340B

WS Inorganics (cat# 591)

0027	Alkalinity as CaCO ₃	mg/L	84	79.5	71.6 - 87.5	Acceptable	SM2320B
1575	Chloride	mg/L	34.4	33.9	30.2 - 37.8	Acceptable	EPA 300.0
1610	Conductivity at 25°C	µmhos/cm	561	548	493 - 603	Acceptable	SM2510B
0010	Fluoride	mg/L	2.81	2.74	2.47 - 3.01	Acceptable	EPA 300.0
1820	Nitrate + Nitrite as N	mg/L	5.30	5.37	4.80 - 5.91	Acceptable	EPA 300.0
0009	Nitrate as N	mg/L	5.30	5.37	4.83 - 5.91	Acceptable	EPA 300.0
1125	Potassium	mg/L	22.5	20.6	17.8 - 23.8	Acceptable	EPA 200.7
0145	Sulfate	mg/L	98.5	99.4	87.3 - 111	Acceptable	EPA 300.0
0024	Total Dissolved Solids at 180°C	mg/L	402	404	259 - 549	Acceptable	SM2540C

WS Inorganics (cat# 591)

0027	Alkalinity as CaCO ₃	mg/L		79.5	71.6 - 87.5	Not Reported	
1575	Chloride	mg/L		33.9	30.2 - 37.8	Not Reported	
1610	Conductivity at 25°C	µmhos/cm		548	493 - 603	Not Reported	
0010	Fluoride	mg/L		2.74	2.47 - 3.01	Not Reported	
1820	Nitrate + Nitrite as N	mg/L	5.33	5.37	4.80 - 5.91	Acceptable	EPA 353.2
0009	Nitrate as N	mg/L	5.33	5.37	4.83 - 5.91	Acceptable	EPA 353.2
1125	Potassium	mg/L		20.6	17.8 - 23.8	Not Reported	
0145	Sulfate	mg/L		99.4	87.3 - 111	Not Reported	
0024	Total Dissolved Solids at 180°C	mg/L		404	259 - 549	Not Reported	

WS pH (cat# 552)

0026	pH	S.U.	5.43	5.42	5.22 - 5.62	Acceptable	SM4500H+ B
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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WS Metals (cat# 590)

1000	Aluminum	µg/L	1960	2010	1730 - 2220	Acceptable	EPA 200.7
0140	Antimony	µg/L		37.2	26.0 - 48.4	Not Reported	
0001	Arsenic	µg/L	27.5	28.8	20.2 - 37.4	Acceptable	EPA 200.7
0002	Barium	µg/L	823	845	718 - 972	Acceptable	EPA 200.7
0141	Beryllium	µg/L		8.84	7.51 - 10.2	Not Reported	
0226	Boron	µg/L	1700	1770	1540 - 1960	Acceptable	EPA 200.7
0003	Cadmium	µg/L	15.3	15.5	12.4 - 18.6	Acceptable	EPA 200.7
0004	Chromium	µg/L	190	191	162 - 220	Acceptable	EPA 200.7
0091	Copper	µg/L	442	451	406 - 496	Acceptable	EPA 200.7
1070	Iron	µg/L	1120	1130	1010 - 1240	Acceptable	EPA 200.7
0005	Lead	µg/L		55.1	38.6 - 71.6	Not Reported	
0236	Manganese	µg/L	577	571	514 - 628	Acceptable	EPA 200.7
0237	Molybdenum	µg/L	69.5	66.4	57.3 - 73.9	Acceptable	EPA 200.7
0142	Nickel	µg/L	75.0	75.9	64.5 - 87.3	Acceptable	EPA 200.7
0007	Selenium	µg/L		74.0	59.2 - 88.8	Not Reported	
1150	Silver	µg/L	180	181	160 - 200	Acceptable	EPA 200.7
0143	Thallium	µg/L		5.16	3.61 - 6.71	Not Reported	
1185	Vanadium	µg/L	555	546	491 - 601	Acceptable	EPA 200.7
0239	Zinc	µg/L	602	604	544 - 664	Acceptable	EPA 200.7

WS Metals (cat# 590)

1000	Aluminum	µg/L	2020	2010	1730 - 2220	Acceptable	EPA 200.8
0140	Antimony	µg/L	37.5	37.2	26.0 - 48.4	Acceptable	EPA 200.8
0001	Arsenic	µg/L	29.4	28.8	20.2 - 37.4	Acceptable	EPA 200.8
0002	Barium	µg/L	835	845	718 - 972	Acceptable	EPA 200.8
0141	Beryllium	µg/L	8.76	8.84	7.51 - 10.2	Acceptable	EPA 200.8
0226	Boron	µg/L		1770	1540 - 1960	Not Reported	
0003	Cadmium	µg/L	15.3	15.5	12.4 - 18.6	Acceptable	EPA 200.8
0004	Chromium	µg/L	193	191	162 - 220	Acceptable	EPA 200.8
0091	Copper	µg/L	450	451	406 - 496	Acceptable	EPA 200.8
1070	Iron	µg/L		1130	1010 - 1240	Not Reported	
0005	Lead	µg/L	56.2	55.1	38.6 - 71.6	Acceptable	EPA 200.8
0236	Manganese	µg/L	576	571	514 - 628	Acceptable	EPA 200.8
0237	Molybdenum	µg/L	66.5	66.4	57.3 - 73.9	Acceptable	EPA 200.8
0142	Nickel	µg/L	75.2	75.9	64.5 - 87.3	Acceptable	EPA 200.8
0007	Selenium	µg/L	70.9	74.0	59.2 - 88.8	Acceptable	EPA 200.8
1150	Silver	µg/L	182	181	160 - 200	Acceptable	EPA 200.8
0143	Thallium	µg/L	5.09	5.16	3.61 - 6.71	Acceptable	EPA 200.8
1185	Vanadium	µg/L	530	546	491 - 601	Acceptable	EPA 200.8
0239	Zinc	µg/L	611	604	544 - 664	Acceptable	EPA 200.8





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WS-175 Final Complete Report

Pam M. Varner
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Norcross, GA 30092
770-734-4200

EPA ID: GA00051
ERA Customer Number: A520001
Report Issued: 04/13/11
Study Dates: 02/07/11 - 03/24/11

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS Mercury (cat# 551)							
0006	Mercury	µg/L	4.53	4.90	3.43 - 6.37	Acceptable	EPA 245.1
WS Nitrite (cat# 594)							
0092	Nitrite as N	mg/L	1.81	1.83	1.56 - 2.10	Acceptable	EPA 300.0
WS Nitrite (cat# 594)							
0092	Nitrite as N	mg/L	1.86	1.83	1.56 - 2.10	Acceptable	EPA 353.2
WS o-Phosphate Nutrients (cat# 558)							
0261	ortho-Phosphate as P	mg/L	4.09	4.55	4.02 - 5.11	Acceptable	SM4500P E
WS Residual Chlorine (cat# 593)							
0022	Free Residual Chlorine	mg/L	0.94	0.898	0.710 - 1.09	Acceptable	SM4500CI G
1940	Total Residual Chlorine	mg/L	0.97	0.898	0.750 - 1.04	Acceptable	SM4500CI G
WS Residual Chlorine (cat# 593)							
0022	Free Residual Chlorine	mg/L	0.8	0.898	0.710 - 1.09	Acceptable	SM4500CI F
1940	Total Residual Chlorine	mg/L	0.9	0.898	0.750 - 1.04	Acceptable	SM4500CI F
WS Organic Carbon (cat# 557)							
1710	Dissolved Organic Carbon (DOC)	mg/L	2.07	1.77	1.42 - 2.18	Acceptable	SM5310B
0263	Total Organic Carbon (TOC)	mg/L	2.02	1.77	1.42 - 2.18	Acceptable	SM5310B
WS Turbidity (cat# 592)							
0023	Turbidity	NTU	4.78	4.45	3.90 - 5.31	Acceptable	EPA 180.1



Study: **WS-175**

ERA Customer Number: **A520001**

Laboratory Name: **Analytical Services Inc**

Microbiology Results



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

Fecal Coliforms Evaluation : Not Reported

E.coli Evaluation : Acceptable

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



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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS MicrobE™ (Coliforms) (cat# 080B)							
0254	Total Coliforms - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221B
0254	Total Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221B
0255	Fecal Coliforms - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221E
0255	Fecal Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM 9221E
0255	E.coli - Sample 1	CFU/100mL		Absence	Absence	Not Reported	
0255	E.coli - Sample 2	CFU/100mL		Absence	Absence	Not Reported	
0255	E.coli - Sample 3	CFU/100mL		Presence	Presence	Not Reported	
0255	E.coli - Sample 4	CFU/100mL		Absence	Absence	Not Reported	
0255	E.coli - Sample 5	CFU/100mL		Absence	Absence	Not Reported	
0255	E.coli - Sample 6	CFU/100mL		Presence	Presence	Not Reported	
0255	E.coli - Sample 7	CFU/100mL		Presence	Presence	Not Reported	
0255	E.coli - Sample 8	CFU/100mL		Absence	Absence	Not Reported	
0255	E.coli - Sample 9	CFU/100mL		Absence	Absence	Not Reported	
0255	E.coli - Sample 10	CFU/100mL		Absence	Absence	Not Reported	

Total Coliforms Evaluation : Acceptable

Fecal Coliforms Evaluation : Acceptable

E.coli Evaluation : Not Reported

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





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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS Heterotrophic Plate Count (cat# 079)							
2555	Heterotrophic Plate Count (MF, PP)	CFU/mL	22	24.0	15.0 - 39.0	Acceptable	SM9215B PCA
2555	Heterotrophic Plate Count (MPN)	MPN/mL		24.0	13.0 - 44.3	Not Reported	



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Organic Results





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WS EDB/DBCP/TCP (cat# 847)

0045	Dibromochloropropane (DBCP)	µg/L	1.24	1.05	0.630 - 1.47	Acceptable	EPA 8011
0046	Ethylene Dibromide (EDB)	µg/L	1.57	1.48	0.888 - 2.07	Acceptable	EPA 8011
5180	1,2,3-Trichloropropane (TCP)	µg/L		1.29	0.774 - 1.81	Not Reported	

