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WP-182 Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 03/15/10

Close Date: 04/29/10

Report Issued Date: 05/18/10

May 18, 2010

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Enclosed is your final report for ERA's WP-182 WatR™Pollution 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 WP-182 WatR™Pollution Proficiency Testing 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 WP-182 WatR™Pollution Proficiency Testing study. If you have any questions, please contact myself, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Sincerely,

Shawn Kassner
Proficiency Testing Manager

Jay R. McBurney
Quality Program Manager

attachments
smk

Report Recipient	Contact/Phone Number	Reporting Type
North Carolina (WP)	Patrick Donnelly / 919-733-3908 x207	All Analytes
South Carolina	Carol Smith / 803-896-0992	All Analytes

WP-182 Definitions & Study Discussion

Study Dates: 03/15/10 - 04/29/10 **Report Issued: 05/18/10**

WP 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	= 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.

WP Study Discussion

ERA's WP-182 WatR™Pollution 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 WP-182 WatR™Pollution 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 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.

If you have any questions or concerns regarding your assessment in ERA's WatR™Pollution Proficiency Testing program, please contact Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Study: **WP-182**

ERA Customer Number: **E559701**

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

Inorganic Results

WP-182 Final Complete Report

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EPA ID: NC01230
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Minerals (cat# 581)							
0027	Alkalinity as CaCO3	mg/L	63	58.6	51.0 - 66.0	Acceptable	SM2320B
0028	Chloride	mg/L	66	67.8	57.9 - 78.1	Acceptable	SM4500Cl- C VIS
0020	Conductivity at 25°C	µmhos/cm	396	383	342 - 424	Acceptable	SM2510B
0029	Fluoride	mg/L		3.12	2.61 - 3.64	Not Reported	
0026	Potassium	mg/L		19.2	15.7 - 23.0	Not Reported	
0025	Sodium	mg/L		69.6	59.1 - 79.8	Not Reported	
0030	Sulfate	mg/L	14.2	15.7	11.9 - 19.1	Acceptable	HACH 8051
0021	Total Dissolved Solids at 180°C	mg/L	278	264	196 - 331	Acceptable	SM2540C
1950	Total Solids at 105°C	mg/L		281	241 - 317	Not Reported	
WP Hardness (cat# 580)							
0072	Non-Filterable Residue (TSS)	mg/L	49	57.0	44.9 - 64.7	Acceptable	SM2540D
0023	Calcium	mg/L		43.1	38.4 - 49.0	Not Reported	
0024	Magnesium	mg/L		10.9	9.28 - 12.5	Not Reported	
1550	Calcium Hardness as CaCO3	mg/L		108	96.2 - 123	Not Reported	
0022	Total Hardness as CaCO3	mg/L	143	152	134 - 174	Acceptable	SM2340C
WP pH (cat# 577)							
0019	pH	S.U.	6.52	6.60	6.40 - 6.80	Acceptable	SM4500H+ B
WP Settleable Solids (cat# 883)							
1965	Settleable Solids	mL/L	38	33.1	26.2 - 42.4	Acceptable	SM2540F
WP Simple Nutrients (cat# 584)							
0031	Ammonia as N	mg/L	8.7	9.03	6.67 - 11.3	Acceptable	SM4500NH3 D
1820	Nitrate + Nitrite as N	mg/L		9.03	7.36 - 10.5	Not Reported	
0032	Nitrate as N	mg/L		9.03	7.04 - 10.9	Not Reported	
0033	ortho-Phosphate as P	mg/L		4.05	3.33 - 4.80	Not Reported	
WP Demand (cat# 578)							
0038	BOD	mg/L	42	58.1	29.2 - 87.0	Acceptable	SM5210B
0102	CBOD	mg/L	40	50.0	22.4 - 77.6	Acceptable	SM5210B
0036	COD	mg/L	94.6	93.8	69.1 - 110	Acceptable	HACH 8000 VIS
0037	TOC	mg/L		37.1	30.9 - 42.9	Not Reported	
WP Turbidity (cat# 893)							
2055	Turbidity	NTU	2.7	2.54	1.97 - 3.13	Acceptable	SM2130B
WP Total Residual Chlorine (cat# 587)							
0098	Total Residual Chlorine	mg/L	0.773	0.760	0.550 - 0.953	Acceptable	ORION 97-70

Study: **WP-182**

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Microbiology Results

WP-182 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP WasteWatR™ Coliform MicrobE™ (cat# 576)							
2500	Total Coliforms (MF)	CFU/100mL		697	352 - 1380	Not Reported	
2530	Fecal Coliforms (MF)	CFU/100mL	550	345	68.0 - 1750	Acceptable	SM9222D m FC
2525	E.coli (MF)	CFU/100mL		525	191 - 1440	Not Reported	
2500	Total Coliforms (MPN)	MPN/100mL		667	141 - 3160	Not Reported	
2530	Fecal Coliforms (MPN)	MPN/100mL	1700	635	64.5 - 6250	Acceptable	SM9221E A1
2525	E.coli (MPN)	MPN/100mL		859	393 - 1880	Not Reported	

ACCREDITED Lab Code: 1539-01

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01