



A Waters Company

**Manvi Saran**  
**Geo-Enviro Consulting & Remedi**  
**200 Centennial Ave**  
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**USA**

***WP-248***



***Final Report***

# **WatR™ Pollution Proficiency Testing**

**WatR™ Pollution Study**

**Open Date: 09/14/15**

**Close Date: 10/29/15**

**Report Issued Date: 11/02/15**



A Waters Company

November 2, 2015

Manvi Saran  
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Enclosed is your final report for ERA's WP-248 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-248 WatR™Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the current TNI Fields of Proficiency Testing (FoPT) tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the current TNI FoPT tables. If the analyte is not included in the TNI 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 many 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 useful in helping you work through your technical issues.

At the request of the TNI Accreditation Council, we have included a Laboratory Exception Report that includes a list of all analytes reported with less than qualifiers when the assigned value was greater than "0." In addition, because we have received many requests from laboratories, this report also includes a list of all analytes with "Not Acceptable" evaluations.

Some states have elected not to convert to the 2009 TNI Standards at this time. If you have released your results to a state that has retained the 2003 NELAC Evaluation Criteria, your final report will include a section that evaluates the results according to the 2003 Standard in addition to the 2009 TNI Standards.

Thank you for your participation in ERA's WP-248 WatR™Pollution Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink, appearing to read "David Kilhefner", written over a white background.

David Kilhefner  
Quality Officer

attachments



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Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
New Jersey	Rachel Ellis / 609-777-1749	All Analytes	2009 TNI



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# WP-248 Definitions & Study Discussion

Study Dates: 09/14/15 - 10/29/15

Report Issued: 11/02/15

## 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 TNI Fields of Proficiency Testing (FoPT) tables. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2009 TNI 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.

## WP Study Discussion

ERA's WP-248 WatR™Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) tables.

ERA's WP-248 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 2009 TNI PT Standard and the criteria contained in the most current TNI 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 WP-248 WatR™Pollution 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™Pollution Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.



Study # : WP-248





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# WP-248 Laboratory Exception Report

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**Piscataway, NJ 08854**  
**(973) 610-5404**

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

**Not Reported**  
**G407030**  
**11/02/15**  
**09/14/15 - 10/29/15**

## 2009 TNI Evaluation Checks

There are no values reported with < where the assigned value was greater than 0.

## 2009 TNI Not Acceptable Evaluations

There were no Not Acceptable evaluations for this study.



# Final Report Results For Laboratory Geo-Enviro Consulting & Remedi

## **2009 TNI Evaluation Report**

Study: **WP-248**

ERA Customer Number: **G407030**

Laboratory Name: **Geo-Enviro Consulting &  
Remedi**

### **Inorganic Results**



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# WP-248 2009 TNI Evaluation Final Complete Report

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(973) 610-5404

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

Not Reported  
G407030  
11/02/15  
09/14/15 - 10/29/15

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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### WP Minerals (cat# 581, lot# P248-506)

1505	Alkalinity as CaCO3	mg/L		75.8	64.4 - 87.2	Not Reported				75.7	3.04	
1575	Chloride	mg/L		42.8	36.9 - 48.8	Not Reported				42.6	1.92	
1610	Conductivity at 25°C	µmhos/cm	295	308	277 - 339	Acceptable	EPA 120.1 1982	10/8/2015	-1.84	314	10.2	
1730	Fluoride	mg/L		1.27	0.985 - 1.52	Not Reported				1.22	0.0737	
1125	Potassium	mg/L		13.7	11.0 - 16.4	Not Reported				13.3	0.744	
1155	Sodium	mg/L		62.7	50.2 - 75.2	Not Reported				61.1	3.48	
2000	Sulfate	mg/L		13.6	10.3 - 16.1	Not Reported				13.0	1.00	
1955	Total Dissolved Solids at 180°C	mg/L		274	229 - 319	Not Reported				256	16.8	
1950	Total Solids at 105°C	mg/L		278	233 - 323	Not Reported				271	15.2	

### WP pH (cat# 577, lot# P248-977)

1900	pH	S.U.	8.67	8.54	8.34 - 8.74	Acceptable	SM 4500-H+ B-2011 2011	10/8/2015	1.61	8.51	0.100	
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### WP Turbidity (cat# 893, lot# P248-777)

2055	Turbidity	NTU	20.2	19.8	16.5 - 23.1	Acceptable	SM 2130 B-2011 2011	10/8/2015	-0.148	20.4	1.34	
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com





# CERTIFICATE OF EXCELLENCE

In recognition of the quality of your laboratory in proficiency testing for

WP-248

Geo-Enviro Consulting & Remedi

is issued this certificate of achievement by ERA. This laboratory has been recognized as a Laboratory of Excellence for achieving 100% acceptable data in this study which included 556 participating laboratories. This achievement is a demonstration of the superior quality of the laboratory in evaluation of the standards listed below.

Minerals  
pH  
Turbidity



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David Kilhefner  
Quality Officer