



Donny Juarez
Energy Laboratories
2393 Salt Creek Hwy
Casper, WY 82601
USA

WP-348  **Final Report**

The section header consists of the text "WP-348" in a bold, green, sans-serif font on the left. In the center is a circular logo with a white border and a green background, depicting a stylized water droplet falling into a pool. To the right of the logo is the text "Final Report" in a bold, green, italicized sans-serif font.

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 01/16/2024

Close Date: 03/01/2024

Report Issued Date: 03/05/2024



A Waters Company

March 5, 2024

Donny Juarez
Energy Laboratories
2393 Salt Creek Hwy
Casper, WY 82601

Enclosed is your final report for ERA's WP-348 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-348 WatR™ Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the most current TNI Fields of Proficiency Testing (FoPT) table the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the table and the evaluation criteria contained in the 2016 TNI Standard, Volume 3. If the analyte is not included in the TNI FoPT table, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 730002268).

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.

Thank you for your participation in ERA's WP-348 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 "C Huff", with a horizontal line extending to the right.

Craig Huff
Senior Technical Manager

attachments





A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type
Alaska	Shera Hickman / 907-375-8210	All Analytes
Florida	Vanessa Soto / 904-791-1599	All Analytes
Louisiana	Paul Bergeron / 225-219-3247	All Analytes
Nevada	Paige Menicucci / 775-687-9311	All Analytes
North Dakota	Cynthia Auen / 701-328-6172	All Analytes
Texas	Frank Jamison / (512) 239-3754	All Analytes

WP-348 Definitions & Study Discussion

Study Dates: 01/16/2024 - 03/01/2024

Report Issued: 03/05/2024

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) table. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2016 TNI Standard. 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 TNI FoPT table 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-348 WatR™Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) table.

ERA's WP-348 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 2016 TNI Standard and the criteria contained in the most current TNI FoPT table.

All activities associated with this proficiency testing study were performed by Waters/ERA with the exception of those noted below. The following physical samples/products were manufactured for Waters/ERA by a subcontractor:

Microbiology products with the following catalog numbers:
880, 935, 079, 077, 080, 595, 595A, 576, 576A

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-348 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.





A Waters Company

WP-348 Laboratory Exception Report

Donny Juarez
Quality Assurance Manager
Energy Laboratories
2393 Salt Creek Hwy
Casper, WY 82601
307-235-0515 x3244

EPA ID:	WY00002
ERA Customer Number:	E772828
Report Issued:	03/05/2024
Study Dates:	01/16/2024 - 03/01/2024

Not Acceptable Evaluations

There were no Not Acceptable evaluations for this study.



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study # : WP-348



Final Report Results For Laboratory Energy Laboratories

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study # : WP-348





Final Evaluation Report

Study: **WP-348**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Inorganic Results

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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WP-348 Final Evaluation Report

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EPA ID:
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Study Dates:

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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# P348-506)

1505	Alkalinity as CaCO3	mg/L	34.7	33.5	26.8 - 40.2	Acceptable	SM2320B 22nd ED 2011	1/31/2024	0.305	33.9	2.66	dmb
1575	Chloride	mg/L	102	100	87.7 - 112	Acceptable	EPA 300.0 2.1 1993	2/5/2024	0.0576	102	4.35	dmb
1610	Conductivity at 25°C	µmhos/cm	465	462	416 - 508	Acceptable	SM2510B 22nd ED 2011	1/31/2024	0.110	463	15.0	jno
1730	Fluoride	mg/L	2.64	2.74	2.20 - 3.17	Acceptable	EPA 300.0 2.1 1993	1/31/2024	-0.986	2.79	0.149	dmb
1125	Potassium	mg/L		17.1	13.7 - 20.5	Not Reported				17.5	0.780	
1155	Sodium	mg/L		79.1	63.3 - 94.9	Not Reported				79.7	4.22	
2000	Sulfate	mg/L	13.9	14.1	10.7 - 16.7	Acceptable	EPA 300.0 2.1 1993	1/31/2024	-0.153	14.0	0.849	dmb
1955	Total Dissolved Solids at 180°C	mg/L		274	229 - 319	Not Reported				270	14.8	
1950	Total Solids at 105°C	mg/L		271	226 - 316	Not Reported				279	16.5	

WP Minerals (cat# 581, lot# P348-506)

1505	Alkalinity as CaCO3	mg/L		33.5	26.8 - 40.2	Not Reported				33.9	2.66	
1575	Chloride	mg/L		100	87.7 - 112	Not Reported				102	4.35	
1610	Conductivity at 25°C	µmhos/cm		462	416 - 508	Not Reported				463	15.0	
1730	Fluoride	mg/L	2.83	2.74	2.20 - 3.17	Acceptable	SM4500F- C 22nd ED 2011	1/31/2024	0.292	2.79	0.149	dmb
1125	Potassium	mg/L		17.1	13.7 - 20.5	Not Reported				17.5	0.780	
1155	Sodium	mg/L		79.1	63.3 - 94.9	Not Reported				79.7	4.22	
2000	Sulfate	mg/L		14.1	10.7 - 16.7	Not Reported				14.0	0.849	
1955	Total Dissolved Solids at 180°C	mg/L		274	229 - 319	Not Reported				270	14.8	
1950	Total Solids at 105°C	mg/L		271	226 - 316	Not Reported				279	16.5	

WP pH (cat# 577, lot# P348-977)

1900	pH	S.U.	6.33	6.30	6.10 - 6.50	Acceptable	SM4500H+ B 22nd ED 2011	1/31/2024	0.705	6.30	0.0428	jno
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All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.





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WP Solids (cat# 241, lot# P348-499)

1960	Total Suspended Solids	mg/L	62.3	62.0	49.4 - 70.0	Acceptable	SM 2540 D-2015 2015	1/31/2024	-0.0987	62.6	2.77	jno
1955	Total Dissolved Solids at 180°C	mg/L	499	484	436 - 532	Acceptable	SM2540C 23rd ED 2015	2/5/2024	0.666	484	22.0	jno
1950	Total Solids at 105°C	mg/L		562	506 - 618	Not Reported				554	19.2	

WP Simple Nutrients (cat# 584, lot# P348-505)

1515	Ammonia as N	mg/L	17.2	17.4	14.0 - 20.6	Acceptable	EPA 350.1 2 1993	2/2/2024	-0.206	17.4	1.00	slf
1820	Nitrate + Nitrite as N	mg/L	15.5	15.6	13.0 - 18.0	Acceptable	EPA 353.2 2 1993	2/5/2024	-0.194	15.7	0.798	slf
1810	Nitrate as N	mg/L	15.5	15.6	13.0 - 18.1	Acceptable	EPA 353.2 (calc)	2/6/2024	-0.162	15.6	0.814	dmb
1870	ortho-Phosphate as P	mg/L	3.65	3.73	3.17 - 4.29	Acceptable	EPA 365.1 2 1993	2/2/2024	-0.576	3.77	0.201	slf
1827	Total Nitrogen	mg/L		33.0	18.8 - 47.2	Not Reported				33.1	2.32	

WP Complex Nutrients (cat# 579, lot# P348-525)

1795	Total Kjeldahl Nitrogen	mg/L		28.8	21.7 - 34.6	Not Reported				28.9	1.99	
1910	Total phosphorus as P	mg/L	7.28	7.43	6.18 - 8.59	Acceptable	EPA 365.1 2 1993	2/5/2024	-0.337	7.42	0.416	slf

WP Nitrite (cat# 888, lot# P348-770)

1840	Nitrite as N	mg/L	1.56	1.59	1.33 - 1.84	Acceptable	SM4500NO2- B 22nd ED 2011	2/1/2024	-0.262	1.58	0.0770	jls1
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WP Demand (cat# 578, lot# P348-516)

1530	BOD	mg/L	68.7	72.4	38.4 - 106	Acceptable	SM 5210 B-2016 2016	2/1/2024	-0.106	70.1	13.4	slf
1555	CBOD	mg/L	59.4	65.6	29.9 - 101	Acceptable	SM 5210 B-2016 2016	1/31/2024	-0.697	68.8	13.4	slf
1565	COD	mg/L		118	91.5 - 140	Not Reported				116	8.70	
2040	TOC	mg/L	50.6	46.6	38.7 - 54.1	Acceptable	EPA 9060A 2004	2/6/2024	1.68	46.8	2.25	dmb



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.





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WP Demand (cat# 578, lot# P348-516)

1530	BOD	mg/L		72.4	38.4 - 106	Not Reported				70.1	13.4	
1555	CBOD	mg/L		65.6	29.9 - 101	Not Reported				68.8	13.4	
1565	COD	mg/L		118	91.5 - 140	Not Reported				116	8.70	
2040	TOC	mg/L	49.2	46.6	38.7 - 54.1	Acceptable	SM 5310 C-2014 2014	1/31/2024	1.06	46.8	2.25	dmb

WP Oil & Grease (cat# 582, lot# P348-518)

1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	124	123	88.9 - 142	Acceptable	EPA 1664A 1999	2/16/2024	1.00	109	15.2	
1803	n-Hexane Extractable Material(O&G)(IR)	mg/L		151	111 - 172	Not Reported				115	17.9	

WP Hexavalent Chromium (cat# 898, lot# P348-984)

1045	Hexavalent Chromium	µg/L	423	390	325 - 450	Acceptable	SM3500Cr B 22nd ED 2011	2/22/2024	1.44	387	25.0	dmb
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WP Sulfide (cat# 891, lot# P348-071)

2005	Sulfide	mg/L	3.92	4.61	1.81 - 6.84	Acceptable	SM 4500-S2 F-2011 2011	1/30/2024	0.526	3.41	0.978	jls1
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WP Sulfide (cat# 891, lot# P348-071)

2005	Sulfide	mg/L	4.18	4.61	1.81 - 6.84	Acceptable	SM 4500-S2 D-2011 2011	1/30/2024	0.792	3.41	0.978	jls1
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WP Acidity (cat# 885, lot# P348-915)

1500	Acidity as CaCO3	mg/L	1668	1710	1540 - 1880	Acceptable	SM2310B 22nd ED 2011	1/30/2024	-0.110	1670	55.9	slf
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WP Bromide (cat# 887, lot# P348-769)

1540	Bromide	mg/L	5.77	4.91	4.04 - 5.77	Acceptable	EPA 300.0 2.1 1993	2/5/2024	2.60	4.91	0.332	dmb
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WP Total Residual Chlorine (cat# 587, lot# P348-501)

1945	Free Residual Chlorine	mg/L		1.72	1.27 - 2.02	Not Reported				1.68	0.145	
1940	Total Residual Chlorine	mg/L	1.59	1.80	1.33 - 2.11	Acceptable	SM4500Cl G 22nd ED 2011	2/8/2024	-1.09	1.73	0.128	dmb



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study #: WP-348



Final Evaluation Report

Study: **WP-348**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Microbiology Results

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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WP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P348-083)

2500	Total Coliforms (MF)	CFU/100mL		1120	505 - 2500	Not Reported				1120	333	
2530	Fecal Coliforms (MF)	CFU/100mL		715	350 - 1460	Not Reported				715	185	
2525	E.coli (MF)	CFU/100mL		877	296 - 2600	Not Reported				877	385	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	1550	1560	764 - 3190	Acceptable	SM9223 COL118QT 23rd ED 2016	1/30/2024	-0.0303	1560	405	
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL	1300	1190	610 - 2310	Acceptable	Colilert®-18 (Fecal Coliforms) 2010	1/30/2024	0.415	1190	283	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	1500	1570	783 - 3150	Acceptable	SM9223 COL118QT 23rd ED 2016	1/30/2024	-0.199	1570	394	

WP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P348-083)

2500	Total Coliforms (MF)	CFU/100mL		1120	505 - 2500	Not Reported				1120	333	
2530	Fecal Coliforms (MF)	CFU/100mL		715	350 - 1460	Not Reported				715	185	
2525	E.coli (MF)	CFU/100mL		877	296 - 2600	Not Reported				877	385	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	1990	1560	764 - 3190	Acceptable	SM9223 COLertQT 23rd ED 2016	1/30/2024	1.02	1560	405	
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL		1190	610 - 2310	Not Reported				1190	283	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	1990	1570	783 - 3150	Acceptable	SM9223 COLertQT 23rd ED 2016	1/30/2024	1.02	1570	394	



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study # : WP-348

Final Evaluation Report

Study: **WP-348**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Organic Results

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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WP Gasoline Range Organics (GRO) in Water (cat# 640, lot# P348-762)

9408	Gasoline Range Organics (GRO)	µg/L	680	659	164 - 1230	Acceptable	EPA 8015C 3 2007	2/9/2024	-0.685	783	151	
4375	Benzene in GRO	µg/L		2.07	1.04 - 3.29	Not Reported				1.80	0.0120	
4765	Ethylbenzene in GRO	µg/L		18.1	11.2 - 25.3	Not Reported				17.6	0.983	
5140	Toluene in GRO	µg/L		49.1	27.4 - 64.0	Not Reported				44.2	2.76	
5260	Xylenes, total in GRO	µg/L		97.5	61.2 - 135	Not Reported				98.8	1.38	

WP Diesel Range Organics (DRO) in Water (cat# 641, lot# P348-764)

9369	Diesel Range Organics (DRO)	µg/L	1140	2660	542 - 3410	Acceptable	EPA 8015C 3 2007	2/7/2024	-1.66	2010	521	dsa
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WP Total Petroleum Hydrocarbons (TPH) in Water (cat# 642, lot# P348-642)

1853	TPH (Gravimetric)	mg/L	53.3	73.0	33.7 - 105	Acceptable	EPA 1664A SGT 1999	2/16/2024	0.207	51.5	8.51	
1853	TPH (IR)	mg/L		89.8	42.0 - 130	Not Reported				73.9	12.7	



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

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Study # : WP-348

CERTIFICATE OF EXCELLENCE

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

WP-348

Energy Laboratories

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 718 participating laboratories. This achievement is a demonstration of the superior quality of the laboratory in evaluation of the standards listed below.

Acidity	Bromide	Complex Nutrients	Demand
Diesel Range	Gasoline Range	Hexavalent	Minerals
Organics (DRO) in Water	Organics (GRO) in Water	Chromium	
Nitrite	Oil & Grease	pH	Simple Nutrients
Solids	Sulfide	Total Petroleum Hydrocarbons (TPH) in Water	Total Residual Chlorine

WasteWatR™
Coliform MicrobE™



Craig Huff
Senior Technical Manager