



A Waters Company

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

WP-354



Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 07/15/2024

Close Date: 08/29/2024

Report Issued Date: 09/03/2024



A Waters Company

September 3, 2024

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

Enclosed is your final report for ERA's WP-354 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-354 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-354 WatR™ Pollution Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

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	Sarah Brunner / 701-328-6119	All Analytes
Texas	Frank Jamison / (512) 239-3754	All Analytes



A Waters Company

WP-354 Definitions & Study Discussion

Study Dates: 07/15/2024 - 08/29/2024

Report Issued: 09/03/2024

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-354 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-354 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-354 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.





WP-354 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: 09/03/2024
Study Dates: 07/15/2024 - 08/29/2024

Not Acceptable Evaluations

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Hexavalent Chromium (cat# 898, lot# P354-984)							
1045	Hexavalent Chromium	µg/L	332	285	236 - 331	Not Acceptable	SM3500Cr B 22nd ED 2011



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.

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



Study # : WP-354



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.

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

Study # : WP-354





Final Evaluation Report

Study: **WP-354**

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.

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



Study # : WP-354



A Waters Company

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

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

WY00002
E772828
09/03/2024
07/15/2024 - 08/29/2024

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
------------------------	---------	-------	-------------------	-------------------	----------------------	---------------------------	--------------------	------------------	---------	---------------	--------------------------------	--------------

WP Minerals (cat# 581, lot# P354-506)

1505	Alkalinity as CaCO ₃	mg/L	45.6	44.1	37.5 - 50.7	Acceptable	SM2320B 22nd ED 2011	7/22/2024	0.481	44.4	2.46	slf
1575	Chloride	mg/L	87.7	85.9	75.2 - 96.8	Acceptable	EPA 300.0 2.1 1993	7/24/2024	0.337	86.8	2.76	jls1
1610	Conductivity at 25°C	µmhos/cm	432	435	392 - 478	Acceptable	SM2510B 22nd ED 2011	7/17/2024	-0.550	438	11.7	jil
1730	Fluoride	mg/L	1.06	1.05	0.803 - 1.28	Acceptable	EPA 300.0 2.1 1993	7/24/2024	0.169	1.05	0.0832	jls1
1125	Potassium	mg/L		19.1	15.3 - 22.9	Not Reported				19.2	1.02	
1155	Sodium	mg/L		75.1	60.1 - 90.1	Not Reported				74.6	4.00	
2000	Sulfate	mg/L	21.8	20.8	16.4 - 24.3	Acceptable	EPA 300.0 2.1 1993	7/24/2024	0.977	20.8	1.03	jls1
1955	Total Dissolved Solids at 180°C	mg/L		280	235 - 325	Not Reported				275	14.8	
1950	Total Solids at 105°C	mg/L		284	239 - 329	Not Reported				285	18.6	

WP Minerals (cat# 581, lot# P354-506)

1505	Alkalinity as CaCO ₃	mg/L		44.1	37.5 - 50.7	Not Reported				44.4	2.46	
1575	Chloride	mg/L		85.9	75.2 - 96.8	Not Reported				86.8	2.76	
1610	Conductivity at 25°C	µmhos/cm		435	392 - 478	Not Reported				438	11.7	
1730	Fluoride	mg/L	1.09	1.05	0.803 - 1.28	Acceptable	SM4500F- C 22nd ED 2011	7/30/2024	0.529	1.05	0.0832	slf
1125	Potassium	mg/L		19.1	15.3 - 22.9	Not Reported				19.2	1.02	
1155	Sodium	mg/L		75.1	60.1 - 90.1	Not Reported				74.6	4.00	
2000	Sulfate	mg/L		20.8	16.4 - 24.3	Not Reported				20.8	1.03	
1955	Total Dissolved Solids at 180°C	mg/L		280	235 - 325	Not Reported				275	14.8	
1950	Total Solids at 105°C	mg/L		284	239 - 329	Not Reported				285	18.6	

WP pH (cat# 577, lot# P354-977)

1900	pH	S.U.	6.65	6.60	6.40 - 6.80	Acceptable	SM4500H+ B 22nd ED 2011	7/17/2024	1.05	6.61	0.0417	jil
------	----	------	------	------	-------------	------------	-------------------------	-----------	------	------	--------	-----

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.

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

Study # : WP-354





A Waters Company

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

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

WY00002
E772828
09/03/2024
07/15/2024 - 08/29/2024

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
------------------------	---------	-------	-------------------	-------------------	----------------------	---------------------------	--------------------	------------------	---------	---------------	--------------------------------	--------------

WP Solids (cat# 241, lot# P354-499)

1960	Total Suspended Solids	mg/L	50	50.7	39.4 - 58.0	Acceptable	SM 2540 D-2015 2015	7/17/2024	0.185	49.6	2.33	jil
1955	Total Dissolved Solids at 180°C	mg/L	324	331	286 - 376	Acceptable	SM2540C 23rd ED 2015	7/18/2024	-0.578	333	16.1	jil
1950	Total Solids at 105°C	mg/L		391	346 - 436	Not Reported				388	18.3	

WP Simple Nutrients (cat# 584, lot# P354-505)

1515	Ammonia as N	mg/L	3.79	3.16	2.37 - 4.02	Acceptable	EPA 350.1 2 1993	7/18/2024	2.67	3.18	0.230	dmb
1820	Nitrate + Nitrite as N	mg/L	4.11	4.15	3.38 - 4.88	Acceptable	EPA 353.2 2 1993	7/19/2024	-0.168	4.15	0.229	dmb
1810	Nitrate as N	mg/L	4.11	4.15	3.32 - 4.96	Acceptable	EPA 353.2 (calc)	7/23/2024	-0.182	4.16	0.265	dmb
1870	ortho-Phosphate as P	mg/L	4.25	4.24	3.60 - 4.88	Acceptable	EPA 365.1 2 1993	7/17/2024	-0.0132	4.25	0.229	dmb
1827	Total Nitrogen	mg/L		7.31	4.17 - 10.4	Not Reported				7.51	0.593	

WP Complex Nutrients (cat# 579, lot# P354-525)

1795	Total Kjeldahl Nitrogen	mg/L		19.3	14.4 - 23.5	Not Reported				19.2	0.900	
1910	Total phosphorus as P	mg/L	8.1	8.60	7.17 - 9.93	Acceptable	EPA 365.1 2 1993	7/19/2024	-1.07	8.53	0.402	dmb

WP Nitrite (cat# 888, lot# P354-770)

1840	Nitrite as N	mg/L	1.02	1.01	0.819 - 1.20	Acceptable	SM4500NO2- B 22nd ED 2011	7/18/2024	0.0975	1.01	0.0795	jls1
------	--------------	------	------	------	--------------	------------	---------------------------	-----------	--------	------	--------	------

WP Demand (cat# 578, lot# P354-516)

1530	BOD	mg/L	144	123	66.4 - 180	Acceptable	SM 5210 B-2016 2016	7/17/2024	1.54	123	13.9	slf
1555	CBOD	mg/L	142	111	52.1 - 171	Acceptable	SM 5210 B-2016 2016	7/17/2024	1.31	115	20.7	slf
1565	COD	mg/L		200	162 - 232	Not Reported				199	11.2	
2040	TOC	mg/L	79.2	79.1	66.4 - 91.0	Acceptable	EPA 9060A 2004	7/23/2024	0.0908	79.0	2.60	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.

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

Study # : WP-354





A Waters Company

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

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

WY00002
E772828
09/03/2024
07/15/2024 - 08/29/2024

WP-354 Final Evaluation Report

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
------------------------	---------	-------	-------------------	-------------------	----------------------	---------------------------	--------------------	------------------	---------	---------------	--------------------------------	--------------

WP Demand (cat# 578, lot# P354-516)

1530	BOD	mg/L		123	66.4 - 180	Not Reported				123	13.9	
1555	CBOD	mg/L		111	52.1 - 171	Not Reported				115	20.7	
1565	COD	mg/L		200	162 - 232	Not Reported				199	11.2	
2040	TOC	mg/L	82.4	79.1	66.4 - 91.0	Acceptable	SM 5310 C-2014 2014	7/18/2024	1.32	79.0	2.60	jls1

WP Oil & Grease (cat# 582, lot# P354-518)

1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	92.7	92.7	65.3 - 108	Acceptable	EPA 1664A 1999	8/27/2024	0.689	86.5	9.06	
1803	n-Hexane Extractable Material(O&G)(IR)	mg/L		114	81.9 - 132	Not Reported				105	35.5	

WP Hexavalent Chromium (cat# 898, lot# P354-984)

1045	Hexavalent Chromium	µg/L	332	285	236 - 331	Not Acceptable	SM3500Cr B 22nd ED 2011	7/30/2024		282	16.0	dmb
------	---------------------	------	-----	-----	-----------	----------------	-------------------------	-----------	--	-----	------	-----

WP Sulfide (cat# 891, lot# P354-071)

2005	Sulfide	mg/L	7.04	7.22	3.39 - 10.3	Acceptable	SM 4500-S2 F-2011 2011	7/18/2024	-0.0853	7.15	1.30	jls1
------	---------	------	------	------	-------------	------------	------------------------	-----------	---------	------	------	------

WP Sulfide (cat# 891, lot# P354-071)

2005	Sulfide	mg/L	7.38	7.22	3.39 - 10.3	Acceptable	SM 4500-S2 D-2011 2011	7/18/2024	0.176	7.15	1.30	jls1
------	---------	------	------	------	-------------	------------	------------------------	-----------	-------	------	------	------

WP Acidity (cat# 885, lot# P354-915)

1500	Acidity as CaCO3	mg/L	790	791	712 - 870	Acceptable	SM2310B 22nd ED 2011	7/18/2024	0.146	784	41.1	slf
------	------------------	------	-----	-----	-----------	------------	----------------------	-----------	-------	-----	------	-----

WP Bromide (cat# 887, lot# P354-769)

1540	Bromide	mg/L	3.6	3.20	2.52 - 3.84	Acceptable	EPA 300.0 2.1 1993	7/24/2024	1.64	3.25	0.214	jls1
------	---------	------	-----	------	-------------	------------	--------------------	-----------	------	------	-------	------

WP Total Residual Chlorine (cat# 587, lot# P354-501)

1945	Free Residual Chlorine	mg/L		0.954	0.712 - 1.15	Not Reported				0.914	0.0915	
1940	Total Residual Chlorine	mg/L	0.94	1.01	0.753 - 1.21	Acceptable	SM4500Cl G 22nd ED 2011	7/30/2024	-0.364	0.965	0.0694	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.

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

Study # : WP-354





Final Evaluation Report

Study: **WP-354**

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.

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



Study # : WP-354



A Waters Company

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

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

WY00002
E772828
09/03/2024
07/15/2024 - 08/29/2024

WP-354 Final Evaluation Report

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
------------------------	---------	-------	-------------------	-------------------	----------------------	---------------------------	--------------------	------------------	---------	---------------	--------------------------------	--------------

WP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P354-083)

2500	Total Coliforms (MF)	CFU/100mL		174	98.0 - 311	Not Reported				174	35.6	
2530	Fecal Coliforms (MF)	CFU/100mL		83.0	31.0 - 220	Not Reported				82.7	31.5	
2525	E.coli (MF)	CFU/100mL		142	73.0 - 279	Not Reported				142	34.3	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	225	194	100 - 377	Acceptable	SM9223 COL18QT 23rd ED 2016	7/17/2024	0.665	194	46.0	
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL	108	137	60.9 - 309	Acceptable	Colilert®-18 (Fecal Coliforms) 2010	7/17/2024	-0.884	137	41.4	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	225	193	99.1 - 377	Acceptable	SM9223 COL18QT 23rd ED 2016	7/17/2024	0.684	193	46.3	

WP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P354-083)

2500	Total Coliforms (MF)	CFU/100mL		174	98.0 - 311	Not Reported				174	35.6	
2530	Fecal Coliforms (MF)	CFU/100mL		83.0	31.0 - 220	Not Reported				82.7	31.5	
2525	E.coli (MF)	CFU/100mL		142	73.0 - 279	Not Reported				142	34.3	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	178	194	100 - 377	Acceptable	SM9223 COLertQT 23rd ED 2016	7/17/2024	-0.397	194	46.0	
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL		137	60.9 - 309	Not Reported				137	41.4	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	178	193	99.1 - 377	Acceptable	SM9223 COLertQT 23rd ED 2016	7/17/2024	-0.369	193	46.3	



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.

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

Study # : WP-354





Final Evaluation Report

Study: **WP-354**

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.

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



Study # : WP-354



A Waters Company

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

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

WY00002
E772828
09/03/2024
07/15/2024 - 08/29/2024

WP-354 Final Evaluation Report

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
------------------------	---------	-------	-------------------	-------------------	----------------------	---------------------------	--------------------	------------------	---------	---------------	--------------------------------	--------------

WP Gasoline Range Organics (GRO) in Water (cat# 640, lot# P354-762)

9408	Gasoline Range Organics (GRO)	µg/L	3340	3300	1270 - 5760	Acceptable	EPA 8015C 3 2007	7/25/2024	-0.558	3860	933	adw
4375	Benzene in GRO	µg/L		10.3	5.18 - 16.4	Not Reported				9.66	1.50	
4765	Ethylbenzene in GRO	µg/L		90.3	56.0 - 126	Not Reported				105	5.67	
5140	Toluene in GRO	µg/L		246	137 - 321	Not Reported				246	21.4	
5260	Xylenes, total in GRO	µg/L		488	306 - 677	Not Reported				571	59.8	

WP Diesel Range Organics (DRO) in Water (cat# 641, lot# P354-764)

9369	Diesel Range Organics (DRO)	µg/L	820	1970	292 - 2590	Acceptable	EPA 8015C 3 2007	8/7/2024	-1.37	1330	372	adw
------	-----------------------------	------	-----	------	------------	------------	------------------	----------	-------	------	-----	-----

WP Total Petroleum Hydrocarbons (TPH) in Water (cat# 642, lot# P354-642)

1853	TPH (Gravimetric)	mg/L	107	144	68.8 - 208	Acceptable	EPA 1664A SGT 1999	8/27/2024	0.765	91.8	19.9	
1853	TPH (IR)	mg/L		177	85.1 - 256	Not Reported				125	49.6	



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.

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

Study # : WP-354



CERTIFICATE OF RECOGNITION

ERA congratulates
Energy Laboratories
WP-354

For your participation and successful evaluation, we recognize the performance of this laboratory for achieving acceptable evaluation in the following standards.

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



Craig Huff
Senior Technical Manager