



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

WS-288  ***Final Report***

WatR™ Supply Proficiency Testing

WatR™ Supply Study

Open Date: 07/06/20

Close Date: 08/20/20

Report Issued Date: 08/24/20



A Waters Company

August 24, 2020

Donny Juarez
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Enclosed is your final report for ERA's WS-288 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-288 WatR™ Supply Proficiency Testing (PT) study have been evaluated using the following tiered approach. If the analyte is listed in the most current NELAC 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 NELAC 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 WS-288 WatR™ Supply 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 "Matthew Seebeck".

Matthew Seebeck
Quality Officer

attachments



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type
Alabama	Benny Laughlin / 334-271-7775	All Analytes
ANAB	Zaneta Popovska / 414-501-5341	All Analytes
California ELAP	Christine Sotelo / 916-341-5175	All Analytes
Colorado	Ben Chouaf / 303-692-3045	All Analytes
EPA Region 8	Marcie Tidd / (303) 462-9476	All Analytes
Florida	Vanessa Soto / 904-791-1599	All Analytes
Georgia	Lynne Grubb / 404-657-3189	All Analytes
Idaho	Ernie Bader / 208-334-2235 x 290	All Analytes
Louisiana (WS)	Grant Aucoin / 225-219-5235	All Analytes
Montana	Russell Leu / 406-444-5259	All Analytes
Nebraska	Laurie Wieting / 402-471-8407	All Analytes
Nevada	Paige Menicucci / 775-687-9311	All Analytes
New Mexico (WS)	Bethany Anderson / 505-222-9552	All Analytes
Oregon	Travis Bartholomew / 503-693-4122	All Analytes
South Dakota	Stacy Ellwanger / 605-773-4757	All Analytes
Texas	Frank Jamison / (512) 239-3754	All Analytes
Washington	Rebecca Wood / 360-871-8811	All Analytes



WS-288 Definitions & Study Discussion

Study Dates: 07/06/20 - 08/20/20

Report Issued: 08/24/20

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 NELAC 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 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 NELAC FoPT table or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable. This report is scored by the criteria in the 2016 TNI Standard, Volume 3, instead of by the criteria in the 2009 TNI Standard to which the Proficiency Testing Provider is accredited. This is a planned change and is endorsed by the TNI Proficiency Testing Program Executive Committee for transition to the 2016 TNI Standard.

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-288 WatR™ Supply Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standards and the 2016 TNI Standard, Volume 3, Section 5.9 and the criteria contained in the most current NELAC Fields of Proficiency Testing (FoPT) table.

ERA's WS-288 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 2009 TNI PT Standard and the criteria contained in the most current NELAC FoPT table.

All analytes are included in ERA's A2LA accreditation, certification number 1539.01.

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 WS-288 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 our Proficiency Testing Department at 1-800-372-0122.





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WS-288 Laboratory Exception Report

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307-235-0515 x3244

EPA ID:
ERA Customer Number:
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WY00002
E772828
08/24/20
07/06/20 - 08/20/20

Not Acceptable Evaluations

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS pH (cat# 552, lot# S288-779)							
1900	pH	S.U.	6.09	5.82	5.62 - 6.02	Not Acceptable	SM4500H+ B 22nd ED 2011
WS Metals (cat# 590, lot# S288-697)							
1055	Copper	µg/L	1048	1180	1060 - 1300	Not Acceptable	EPA 200.7 4.4 1994
1165	Thallium	µg/L	20.8	6.48	4.54 - 8.42	Not Acceptable	EPA 200.8 5.4 1994
WS o-Phosphate Nutrients (cat# 558, lot# S288-667)							
1870	ortho-Phosphate as P	mg/L	1.45	0.752	0.639 - 0.865	Not Acceptable	EPA 365.1 2 1993
WS Organic Carbon (cat# 557, lot# S288-669)							
1710	Dissolved Organic Carbon (DOC)	mg/L	5.12	4.40	3.89 - 4.88	Not Acceptable	SM5310C 22nd ED 2011
WS Silica (cat# 902, lot# S288-785)							
1990	Silica as SiO ₂	mg/L	27.3	60.2	51.2 - 69.2	Not Acceptable	EPA 200.7 4.4 1994
WS Unregulated Volatiles (cat# 841, lot# S288-683)							
4385	Bromobenzene	µg/L	< 1.2	2.55	1.53 - 3.57	Not Acceptable	EPA 524.2 4.1 1995
5000	tert-Butyl methyl ether (MTBE)	µg/L	61	44.8	35.8 - 53.8	Not Acceptable	EPA 524.2 4.1 1995
4960	Chloromethane	µg/L	22.7	40.0	24.0 - 56.0	Not Acceptable	EPA 524.2 4.1 1995
4630	1,1-Dichloroethane	µg/L	18.8	11.1	8.88 - 13.3	Not Acceptable	EPA 524.2 4.1 1995



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Final Report Results For Laboratory Energy Laboratories





Final Evaluation Report

Study: **WS-288**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Inorganic Results





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WS-288 Final Evaluation Report

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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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WS Hardness (cat# 555, lot# S288-693)

1035	Calcium	mg/L	45.6	43.8	37.2 - 50.4	Acceptable	EPA 200.7 4.4 1994	7/18/2020	0.571	44.7	1.55	jcg
1085	Magnesium	mg/L	7.92	8.30	7.06 - 9.54	Acceptable	EPA 200.7 4.4 1994	7/18/2020	-1.09	8.33	0.376	jcg
1155	Sodium	mg/L	47.2	44.7	38.0 - 51.4	Acceptable	EPA 200.7 4.4 1994	7/18/2020	1.46	44.6	1.78	jcg
1550	Calcium Hardness as CaCO3	mg/L	114	109	92.6 - 125	Acceptable	SM2340B 22nd ED 2011	7/24/2020	0.641	112	3.50	jlw
1755	Total Hardness as CaCO3	mg/L	147	144	122 - 166	Acceptable	SM2340B 22nd ED 2011	7/24/2020	0.297	146	4.02	jlw

WS Inorganics (cat# 591, lot# S288-698)

1505	Alkalinity as CaCO3	mg/L	186	180	162 - 198	Acceptable	SM2320B 22nd ED 2011	7/16/2020	1.01	181	5.33	dmb
1575	Chloride	mg/L	98.9	106	90.1 - 122	Acceptable	EPA 300.0 2.1 1993	7/21/2020	-1.34	104	4.01	dmb
1610	Conductivity at 25°C	µmhos/cm	1000	1010	909 - 1110	Acceptable	SM2510B 22nd ED 2011	7/16/2020	0.0381	999	21.9	kjp
1730	Fluoride	mg/L	3.06	3.34	3.01 - 3.67	Acceptable	EPA 300.0 2.1 1993	7/23/2020	-1.21	3.28	0.179	hat
1820	Nitrate + Nitrite as N	mg/L	5.51	5.68	4.83 - 6.53	Acceptable	EPA 353.2 2 1993	7/17/2020	-0.225	5.56	0.232	dmb
1810	Nitrate as N	mg/L	5.34	5.68	5.11 - 6.25	Acceptable	EPA 300.0 2.1 1993	7/21/2020	-0.761	5.53	0.246	dmb
1125	Potassium	mg/L	24	22.7	19.3 - 26.1	Acceptable	EPA 200.7 4.4 1994	7/18/2020	0.805	22.9	1.32	jcg
2000	Sulfate	mg/L	127	131	111 - 151	Acceptable	EPA 300.0 2.1 1993	7/21/2020	-0.482	129	4.30	dmb
1955	Total Dissolved Solids at 180°C	mg/L	807	809	647 - 971	Acceptable	SM2540C 21st ED 1997	7/18/2020	0.425	795	29.0	kjp



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WS Inorganics (cat# 591, lot# S288-698)

1505	Alkalinity as CaCO3	mg/L		180	162 - 198	Not Reported				181	5.33	
1575	Chloride	mg/L		106	90.1 - 122	Not Reported				104	4.01	
1610	Conductivity at 25°C	µmhos/cm		1010	909 - 1110	Not Reported				999	21.9	
1730	Fluoride	mg/L	3.24	3.34	3.01 - 3.67	Acceptable	SM4500F- C 22nd ED 2011	7/17/2020	-0.202	3.28	0.179	dmb
1820	Nitrate + Nitrite as N	mg/L		5.68	4.83 - 6.53	Not Reported				5.56	0.232	
1810	Nitrate as N	mg/L	5.51	5.68	5.11 - 6.25	Acceptable	EPA 353.2 (calc)	7/21/2020	-0.0692	5.53	0.246	atd
1125	Potassium	mg/L		22.7	19.3 - 26.1	Not Reported				22.9	1.32	
2000	Sulfate	mg/L		131	111 - 151	Not Reported				129	4.30	
1955	Total Dissolved Solids at 180°C	mg/L		809	647 - 971	Not Reported				795	29.0	

WS pH (cat# 552, lot# S288-779)

1900	pH	S.U.	6.09	5.82	5.62 - 6.02	Not Acceptable	SM4500H+ B 22nd ED 2011	7/16/2020	7.91	5.82	0.0347	kjp
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WS Metals (cat# 590, lot# S288-697)

1000	Aluminum	µg/L	918	864	734 - 994	Acceptable	EPA 200.7 4.4 1994	7/18/2020	0.857	883	41.0	jcg
1005	Antimony	µg/L		26.6	18.6 - 34.6	Not Reported				26.5	1.72	
1010	Arsenic	µg/L	30.4	41.8	29.3 - 54.3	Acceptable	EPA 200.7 4.4 1994	7/18/2020	-3.72	39.9	2.54	jcg
1015	Barium	µg/L	889	970	824 - 1120	Acceptable	EPA 200.7 4.4 1994	7/30/2020	-1.86	964	40.6	jcg
1020	Beryllium	µg/L	8.2	9.01	7.66 - 10.4	Acceptable	EPA 200.7 4.4 1994	7/30/2020	-1.32	8.90	0.533	jcg
1025	Boron	µg/L	1255	1330	1130 - 1530	Acceptable	EPA 200.7 4.4 1994	7/22/2020	-0.804	1310	71.9	jcg
1030	Cadmium	µg/L	39.2	38.8	31.0 - 46.6	Acceptable	EPA 200.7 4.4 1994	7/18/2020	0.498	38.3	1.72	jcg
1040	Chromium	µg/L	156	152	129 - 175	Acceptable	EPA 200.7 4.4 1994	7/18/2020	0.534	153	6.02	jcg
1055	Copper	µg/L	1048	1180	1060 - 1300	Not Acceptable	EPA 200.7 4.4 1994	7/30/2020	-2.21	1170	54.5	jcg
1070	Iron	µg/L	1333	1210	1030 - 1390	Acceptable	EPA 200.7 4.4 1994	7/18/2020	2.20	1210	58.0	jcg
1075	Lead	µg/L		82.7	57.9 - 108	Not Reported				82.1	4.52	
1090	Manganese	µg/L	549	525	446 - 604	Acceptable	EPA 200.7 4.4 1994	7/18/2020	0.529	538	20.5	jcg
1100	Molybdenum	µg/L	75.7	73.4	62.4 - 84.4	Acceptable	EPA 200.7 4.4 1994	7/30/2020	0.783	72.6	3.90	jcg
1105	Nickel	µg/L	313	303	258 - 348	Acceptable	EPA 200.7 4.4 1994	7/18/2020	0.957	301	12.4	jcg
1140	Selenium	µg/L		14.6	11.7 - 17.5	Not Reported				14.5	1.19	
1150	Silver	µg/L		209	146 - 272	Not Reported				210	9.81	
1165	Thallium	µg/L		6.48	4.54 - 8.42	Not Reported				6.34	0.409	
1185	Vanadium	µg/L	482	531	451 - 611	Acceptable	EPA 200.7 4.4 1994	7/30/2020	-1.53	524	27.8	jcg
1190	Zinc	µg/L	1440	1420	1210 - 1630	Acceptable	EPA 200.7 4.4 1994	7/18/2020	0.336	1420	73.6	jcg



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WS Metals (cat# 590, lot# S288-697)

1000	Aluminum	µg/L	854	864	734 - 994	Acceptable	EPA 200.8 5.4 1994	8/20/2020	-0.705	883	41.0	jcg
1005	Antimony	µg/L		26.6	18.6 - 34.6	Not Reported				26.5	1.72	
1010	Arsenic	µg/L		41.8	29.3 - 54.3	Not Reported				39.9	2.54	
1015	Barium	µg/L		970	824 - 1120	Not Reported				964	40.6	
1020	Beryllium	µg/L	8.04	9.01	7.66 - 10.4	Acceptable	EPA 200.8 5.4 1994	8/20/2020	-1.62	8.90	0.533	jcg
1025	Boron	µg/L		1330	1130 - 1530	Not Reported				1310	71.9	
1030	Cadmium	µg/L		38.8	31.0 - 46.6	Not Reported				38.3	1.72	
1040	Chromium	µg/L		152	129 - 175	Not Reported				153	6.02	
1055	Copper	µg/L		1180	1060 - 1300	Not Reported				1170	54.5	
1070	Iron	µg/L		1210	1030 - 1390	Not Reported				1210	58.0	
1075	Lead	µg/L		82.7	57.9 - 108	Not Reported				82.1	4.52	
1090	Manganese	µg/L		525	446 - 604	Not Reported				538	20.5	
1100	Molybdenum	µg/L		73.4	62.4 - 84.4	Not Reported				72.6	3.90	
1105	Nickel	µg/L	266	303	258 - 348	Acceptable	EPA 200.8 5.4 1994	7/31/2020	-2.83	301	12.4	jcg
1140	Selenium	µg/L		14.6	11.7 - 17.5	Not Reported				14.5	1.19	
1150	Silver	µg/L	188	209	146 - 272	Acceptable	EPA 200.8 5.4 1994	7/31/2020	-2.29	210	9.81	jcg
1165	Thallium	µg/L	20.8	6.48	4.54 - 8.42	Not Acceptable	EPA 200.8 5.4 1994	7/31/2020	35.3	6.34	0.409	jcg
1185	Vanadium	µg/L		531	451 - 611	Not Reported				524	27.8	
1190	Zinc	µg/L		1420	1210 - 1630	Not Reported				1420	73.6	



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WS Metals (cat# 590, lot# S288-697)

1000	Aluminum	µg/L		864	734 - 994	Not Reported				883	41.0	
1005	Antimony	µg/L	34.4	26.6	18.6 - 34.6	Acceptable	EPA 200.7 4.4 1994	8/6/2020	4.57	26.5	1.72	meh
1010	Arsenic	µg/L		41.8	29.3 - 54.3	Not Reported				39.9	2.54	
1015	Barium	µg/L		970	824 - 1120	Not Reported				964	40.6	
1020	Beryllium	µg/L		9.01	7.66 - 10.4	Not Reported				8.90	0.533	
1025	Boron	µg/L		1330	1130 - 1530	Not Reported				1310	71.9	
1030	Cadmium	µg/L		38.8	31.0 - 46.6	Not Reported				38.3	1.72	
1040	Chromium	µg/L		152	129 - 175	Not Reported				153	6.02	
1055	Copper	µg/L		1180	1060 - 1300	Not Reported				1170	54.5	
1070	Iron	µg/L		1210	1030 - 1390	Not Reported				1210	58.0	
1075	Lead	µg/L	72.4	82.7	57.9 - 108	Acceptable	EPA 200.7 4.4 1994	8/6/2020	-2.15	82.1	4.52	meh
1090	Manganese	µg/L		525	446 - 604	Not Reported				538	20.5	
1100	Molybdenum	µg/L		73.4	62.4 - 84.4	Not Reported				72.6	3.90	
1105	Nickel	µg/L		303	258 - 348	Not Reported				301	12.4	
1140	Selenium	µg/L	12.7	14.6	11.7 - 17.5	Acceptable	EPA 200.7 4.4 1994	8/19/2020	-1.50	14.5	1.19	meh
1150	Silver	µg/L	181	209	146 - 272	Acceptable	EPA 200.7 4.4 1994	8/3/2020	-3.00	210	9.81	meh
1165	Thallium	µg/L		6.48	4.54 - 8.42	Not Reported				6.34	0.409	
1185	Vanadium	µg/L		531	451 - 611	Not Reported				524	27.8	
1190	Zinc	µg/L		1420	1210 - 1630	Not Reported				1420	73.6	



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WS Metals (cat# 590, lot# S288-697)

1000	Aluminum	µg/L		864	734 - 994	Not Reported				883	41.0	
1005	Antimony	µg/L	26.2	26.6	18.6 - 34.6	Acceptable	EPA 200.8 5.4 1994	7/20/2020	-0.201	26.5	1.72	meh
1010	Arsenic	µg/L	38.8	41.8	29.3 - 54.3	Acceptable	EPA 200.8 5.4 1994	7/20/2020	-0.419	39.9	2.54	meh
1015	Barium	µg/L	861	970	824 - 1120	Acceptable	EPA 200.8 5.4 1994	7/18/2020	-2.55	964	40.6	meh
1020	Beryllium	µg/L		9.01	7.66 - 10.4	Not Reported				8.90	0.533	
1025	Boron	µg/L	1271	1330	1130 - 1530	Acceptable	EPA 200.8 5.4 1994	7/20/2020	-0.582	1310	71.9	meh
1030	Cadmium	µg/L	38.9	38.8	31.0 - 46.6	Acceptable	EPA 200.8 5.4 1994	7/20/2020	0.324	38.3	1.72	meh
1040	Chromium	µg/L	149	152	129 - 175	Acceptable	EPA 200.8 5.4 1994	7/20/2020	-0.628	153	6.02	meh
1055	Copper	µg/L	1073	1180	1060 - 1300	Acceptable	EPA 200.8 5.4 1994	7/18/2020	-1.75	1170	54.5	meh
1070	Iron	µg/L		1210	1030 - 1390	Not Reported				1210	58.0	
1075	Lead	µg/L	81	82.7	57.9 - 108	Acceptable	EPA 200.8 5.4 1994	7/20/2020	-0.251	82.1	4.52	meh
1090	Manganese	µg/L	544	525	446 - 604	Acceptable	EPA 200.8 5.4 1994	7/20/2020	0.285	538	20.5	meh
1100	Molybdenum	µg/L	70.4	73.4	62.4 - 84.4	Acceptable	EPA 200.8 5.4 1994	7/20/2020	-0.576	72.6	3.90	meh
1105	Nickel	µg/L		303	258 - 348	Not Reported				301	12.4	
1140	Selenium	µg/L	13.5	14.6	11.7 - 17.5	Acceptable	EPA 200.8 5.4 1994	7/18/2020	-0.829	14.5	1.19	meh
1150	Silver	µg/L		209	146 - 272	Not Reported				210	9.81	
1165	Thallium	µg/L		6.48	4.54 - 8.42	Not Reported				6.34	0.409	
1185	Vanadium	µg/L	459	531	451 - 611	Acceptable	EPA 200.8 5.4 1994	7/18/2020	-2.36	524	27.8	meh
1190	Zinc	µg/L	1487	1420	1210 - 1630	Acceptable	EPA 200.8 5.4 1994	7/20/2020	0.975	1420	73.6	meh

WS Uranium (cat# 858, lot# S288-930)

3055	Uranium (Nat)	µg/L	10.6	11.9	9.17 - 13.8	Acceptable	EPA 200.8 5.4 1994	7/20/2020	-1.50	11.6	0.701	meh
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A Waters Company

WS-288 Final Evaluation Report

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WS Inorganic Disinfection #2 (cat# 5260, lot# S288-5262)

1535	Bromate	µg/L		31.8	22.3 - 41.3	Not Reported				32.1	3.08	
1540	Bromide	µg/L	202	227	193 - 261	Acceptable	EPA 300.0 2.1 1993	7/22/2020	-1.58	230	17.9	dmb

WS Nitrite (cat# 594, lot# S288-695)

1840	Nitrite as N	mg/L	1.64	1.71	1.45 - 1.97	Acceptable	SM4500NO2- B 22nd ED 2011	7/15/2020	-1.19	1.73	0.0740	hat
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WS o-Phosphate Nutrients (cat# 558, lot# S288-667)

1870	ortho-Phosphate as P	mg/L	1.45	0.752	0.639 - 0.865	Not Acceptable	EPA 365.1 2 1993	7/15/2020	17.7	0.756	0.0392	dmb
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WS Organic Carbon (cat# 557, lot# S288-669)

1710	Dissolved Organic Carbon (DOC)	mg/L	5.12	4.40	3.89 - 4.88	Not Acceptable	SM5310C 22nd ED 2011	7/30/2020	2.81	4.54	0.206	dmb
2040	Total Organic Carbon (TOC)	mg/L	4.66	4.40	3.52 - 5.28	Acceptable	SM5310C 22nd ED 2011	7/30/2020	0.597	4.51	0.244	dmb

WS Organic Carbon (cat# 557, lot# S288-669)

1710	Dissolved Organic Carbon (DOC)	mg/L		4.40	3.89 - 4.88	Not Reported				4.54	0.206	
2040	Total Organic Carbon (TOC)	mg/L	4.41	4.40	3.52 - 5.28	Acceptable	EPA 9060A 2004	7/30/2020	-0.428	4.51	0.244	dmb

WS Silica (cat# 902, lot# S288-785)

1990	Silica as SiO2	mg/L	27.3	60.2	51.2 - 69.2	Not Acceptable	EPA 200.7 4.4 1994	7/18/2020	-9.65	59.3	3.32	jcg
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WS Corrosivity (cat# 900, lot# S288-980)

1620	Corrosivity	S.I. @ 20°C	1.57	1.48	1.08 - 1.88	Acceptable	SM2330B 21st ED 2000	8/19/2020	1.03	1.38	0.181	jlw
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WS Turbidity (cat# 592, lot# S288-699)

2055	Turbidity	NTU	1.64	1.62	1.32 - 1.95	Acceptable	SM2130B 21st ED 2001	7/15/2020	0.0611	1.63	0.111	dmb
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Final Evaluation Report

Study: **WS-288**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Microbiology Results





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WS-288 Final Evaluation Report

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WS MicrobE™ (Coliforms) (cat# 080A, lot# S288-085A)

2500	Total Coliforms - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 3, 4 and 7
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 2, 5 and 10
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 6
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 9



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WS MicroB™ (Coliforms) (cat# 080A, lot# S288-085A) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 2	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 3	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 4	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 5	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 6	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 7	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 8	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 9	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 10	CFU/100mL		Absence	Absence	Not Reported						

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 3, 4 and 7
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 2, 5 and 10
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 6
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 9



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WS MicrobE™ (Coliforms) (cat# 080A, lot# S288-085A) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	7/14/2020				srm

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 3, 4 and 7
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 2, 5 and 10
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 6
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 9



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WS MicrobE™ (Coliforms) (cat# 080B, lot# S288-085B)

2500	Total Coliforms - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 7	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 9	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2500	Total Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 2, 4 and 6
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 1, 5 and 9
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 8
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 10
 Blank - Blank Pellet (Qualitative), Samples 3 and 7



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WS MicrobE™ (Coliforms) (cat# 080B, lot# S288-085B) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 2	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 3	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 4	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 5	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 6	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 7	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 8	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 9	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 10	CFU/100mL		Absence	Absence	Not Reported						

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 2, 4 and 6
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 1, 5 and 9
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 8
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WS MicrobE™ (Coliforms) (cat# 080B, lot# S288-085B) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 7	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm
2525	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	7/14/2020				srm

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 2, 4 and 6
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 1, 5 and 9
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WS WS SourceWatR™ MicrobE™ (cat# 595, lot# S288-078)

2500	Total Coliforms (MF)	CFU/100mL		65.0	43.0 - 98.0	Not Reported				64.7	13.9	
2530	Fecal Coliforms (MF)	CFU/100mL		39.0	22.0 - 69.0	Not Reported				39.3	11.6	
2525	E.coli (MF)	CFU/100mL		53.0	23.0 - 122	Not Reported				52.8	24.6	
2500	Total Coliforms (MPN)	MPN/100mL	70.6	75.8	50.1 - 115	Acceptable	SM 9223 B (Colilert Quanti-Tray)-2004 2004	7/14/2020	-0.0260	75.9	16.2	
2530	Fecal Coliforms (MPN)	MPN/100mL		62.0	24.9 - 154	Not Reported				70.4	18.8	
2525	E.coli (MPN)	MPN/100mL	70.6	75.3	50.0 - 114	Acceptable	SM 9223 B (Colilert Quanti-Tray)-2004 2004	7/14/2020	-0.0236	75.4	15.9	

WS WS SourceWatR™ MicrobE™ (cat# 595, lot# S288-078)

2500	Total Coliforms (MF)	CFU/100mL		65.0	43.0 - 98.0	Not Reported				64.7	13.9	
2530	Fecal Coliforms (MF)	CFU/100mL		39.0	22.0 - 69.0	Not Reported				39.3	11.6	
2525	E.coli (MF)	CFU/100mL		53.0	23.0 - 122	Not Reported				52.8	24.6	
2500	Total Coliforms (MPN)	MPN/100mL	88.4	75.8	50.1 - 115	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	7/14/2020	0.0547	75.9	16.2	
2530	Fecal Coliforms (MPN)	MPN/100mL		62.0	24.9 - 154	Not Reported				70.4	18.8	
2525	E.coli (MPN)	MPN/100mL	88.4	75.3	50.0 - 114	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	7/14/2020	0.0577	75.4	15.9	

WS Heterotrophic Plate Count (cat# 079, lot# S288-084)

2555	Heterotrophic Plate Count (MF, PP)	CFU/mL		282	221 - 361	Not Reported				282	35.2	
2555	Heterotrophic Plate Count (MPN)	MPN/mL	231	253	146 - 439	Acceptable	Simplate 2000	7/14/2020	-0.0216	253	73.2	



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Final Evaluation Report

Study: **WS-288**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Organic Results





A Waters Company

WS-288 Final Evaluation Report

Donny Juarez
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2393 Salt Creek Hwy
Casper, WY 82601
307-235-0515 x3244

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WS Halomethanes (THMs) (cat# 842, lot# S288-702)

4395	Bromodichloromethane	µg/L	51.4	48.2	38.6 - 57.8	Acceptable	EPA 524.2 4.1 1995	7/20/2020	0.424	49.7	4.11	adw
4400	Bromoform	µg/L	18.5	17.6	14.1 - 21.1	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.548	17.4	1.95	adw
4575	Chlorodibromomethane	µg/L	16.5	17.8	14.2 - 21.4	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.918	18.0	1.67	adw
4505	Chloroform	µg/L	12.7	10.6	8.48 - 12.7	Acceptable	EPA 524.2 4.1 1995	7/21/2020	2.04	10.8	0.954	adw



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WS Regulated Volatiles (cat# 840, lot# S288-703)

4375	Benzene	µg/L	3.71	3.79	2.27 - 5.31	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-0.181	3.77	0.326	adw
4455	Carbon tetrachloride	µg/L	14.1	14.4	11.5 - 17.3	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-0.413	14.6	1.26	adw
4475	Chlorobenzene	µg/L	7.02	6.43	3.86 - 9.00	Acceptable	EPA 524.2 4.1 1995	7/21/2020	1.06	6.47	0.526	adw
4610	1,2-Dichlorobenzene	µg/L	6.81	6.73	4.04 - 9.42	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.0510	6.78	0.618	adw
4620	1,4-Dichlorobenzene	µg/L	2.08	2.19	1.31 - 3.07	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.143	2.11	0.237	adw
4635	1,2-Dichloroethane	µg/L	18.7	18.0	14.4 - 21.6	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.403	18.1	1.54	adw
4640	1,1-Dichloroethylene	µg/L	19.4	18.3	14.6 - 22.0	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-0.0218	19.4	2.19	adw
4645	cis-1,2-Dichloroethylene	µg/L	14.9	18.0	14.4 - 21.6	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-1.76	18.0	1.76	adw
4700	trans-1,2-Dichloroethylene	µg/L	11.8	11.6	9.28 - 13.9	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-0.206	12.1	1.22	adw
4655	1,2-Dichloropropane	µg/L	7.18	6.52	3.91 - 9.13	Acceptable	EPA 524.2 4.1 1995	7/21/2020	1.55	6.37	0.521	adw
4765	Ethylbenzene	µg/L	12	11.6	9.28 - 13.9	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.398	11.6	0.974	adw
4975	Methylene chloride (Dichloromethane)	µg/L	10.2	10.4	8.32 - 12.5	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.141	10.4	1.06	adw
5100	Styrene	µg/L	7.31	5.88	3.53 - 8.23	Acceptable	EPA 524.2 4.1 1995	8/18/2020	1.91	6.20	0.582	adw
5115	Tetrachloroethylene	µg/L	2.37	2.38	1.43 - 3.33	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-0.0424	2.38	0.238	adw
5140	Toluene	µg/L	19.2	17.7	14.2 - 21.2	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.928	17.8	1.54	adw
5155	1,2,4-Trichlorobenzene	µg/L	16.6	15.9	12.7 - 19.1	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.849	15.4	1.38	adw
5160	1,1,1-Trichloroethane	µg/L	6.47	6.99	4.19 - 9.79	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-0.752	6.96	0.646	adw
5165	1,1,2-Trichloroethane	µg/L	18.8	18.4	14.7 - 22.1	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.315	18.2	1.76	adw
5170	Trichloroethylene	µg/L	13.2	12.6	10.1 - 15.1	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.643	12.4	1.29	adw
5235	Vinyl chloride	µg/L	21.7	26.4	15.8 - 37.0	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-1.26	26.1	3.51	adw



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A Waters Company

WS-288 Final Evaluation Report

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WS Regulated Volatiles (cat# 840, lot# S288-703) (Continued)

5260	Xylenes, total	µg/L	34.4	33.4	26.7 - 40.1	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.213	33.8	2.84	adw
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WS Unregulated Volatiles (cat# 841, lot# S288-683)

4385	Bromobenzene	µg/L	< 1.2	2.55	1.53 - 3.57	Not Acceptable	EPA 524.2 4.1 1995	8/18/2020		2.54	0.226	adw
4390	Bromochloromethane	µg/L	< 1.2	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
4950	Bromomethane	µg/L	< 3	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
5000	tert-Butyl methyl ether (MTBE)	µg/L	61	44.8	35.8 - 53.8	Not Acceptable	EPA 524.2 4.1 1995	8/18/2020	4.09	47.8	3.24	adw
4435	n-Butylbenzene	µg/L	< 1.2	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
4440	sec-Butylbenzene	µg/L	17.4	19.1	15.3 - 22.9	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-1.11	19.9	2.24	adw
4445	tert-Butylbenzene	µg/L	13.5	14.0	11.2 - 16.8	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.357	13.9	1.09	adw
4485	Chloroethane	µg/L	< 3	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	8/18/2020				adw
4960	Chloromethane	µg/L	22.7	40.0	24.0 - 56.0	Not Acceptable	EPA 524.2 4.1 1995	8/18/2020	-2.23	36.5	6.16	adw
4535	2-Chlorotoluene	µg/L	14.2	14.8	11.8 - 17.8	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.525	15.1	1.64	adw
4540	4-Chlorotoluene	µg/L	< 1.2	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
4595	Dibromomethane	µg/L	4	4.37	2.62 - 6.12	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.963	4.45	0.470	adw
4615	1,3-Dichlorobenzene	µg/L	14.1	16.0	12.8 - 19.2	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-1.56	16.1	1.30	adw
4625	Dichlorodifluoromethane (Freon 12)	µg/L	< 3	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	8/18/2020				adw
4630	1,1-Dichloroethane	µg/L	18.8	11.1	8.88 - 13.3	Not Acceptable	EPA 524.2 4.1 1995	8/18/2020	6.50	11.3	1.15	adw
4660	1,3-Dichloropropane	µg/L	8.25	8.59	5.15 - 12.0	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.392	8.53	0.706	adw
4665	2,2-Dichloropropane	µg/L	7.34	7.10	4.26 - 9.94	Acceptable	EPA 524.2 4.1 1995	8/18/2020	0.464	6.94	0.860	adw
4670	1,1-Dichloropropene	µg/L	12.6	11.3	9.04 - 13.6	Acceptable	EPA 524.2 4.1 1995	8/18/2020	1.53	10.8	1.19	adw
4680	cis-1,3-Dichloropropene	µg/L	< 1.2	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
4685	trans-1,3-Dichloropropene	µg/L	6.16	7.03	4.22 - 9.84	Acceptable	EPA 524.2 4.1 1995	7/21/2020	0.0840	6.09	0.803	adw



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WS Unregulated Volatiles (cat# 841, lot# S288-683) (Continued)

5175	Fluorotrichloromethane	µg/L	29	31.7	19.0 - 44.4	Acceptable	EPA 524.2 4.1 1995	8/18/2020	-0.917	32.0	3.30	adw
4835	Hexachlorobutadiene	µg/L	< 3	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
4900	Isopropylbenzene	µg/L	14.7	15.6	12.5 - 18.7	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.351	15.2	1.49	adw
4910	4-Isopropyltoluene	µg/L	< 1.2	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
5005	Naphthalene	µg/L	24.1	26.9	18.8 - 35.0	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.606	25.8	2.88	adw
5090	n-Propylbenzene	µg/L	11.2	12.2	9.76 - 14.6	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.948	12.2	1.04	adw
5105	1,1,1,2-Tetrachloroethane	µg/L	3.77	3.54	2.12 - 4.96	Acceptable	EPA 524.2 4.1 1995	8/18/2020	0.744	3.53	0.323	adw
5110	1,1,2,2-Tetrachloroethane	µg/L	< 1.2	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
5150	1,2,3-Trichlorobenzene	µg/L	< 3	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	7/21/2020				adw
5180	1,2,3-Trichloropropane (TCP)	µg/L	11.4	10.0	8.00 - 12.0	Acceptable	EPA 524.2 4.1 1995	7/21/2020	1.18	9.94	1.24	adw
5210	1,2,4-Trimethylbenzene	µg/L	12.5	13.6	10.9 - 16.3	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-0.974	13.8	1.33	adw
5215	1,3,5-Trimethylbenzene	µg/L	13	14.3	11.4 - 17.2	Acceptable	EPA 524.2 4.1 1995	7/21/2020	-1.20	14.6	1.31	adw



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WS Carbamate/Carbamoyloxime Pesticides (cat# 846, lot# S288-707)

7010	Aldicarb	µg/L	31.1	30.1	22.6 - 37.6	Acceptable	EPA 531.1 3.1 1995	8/5/2020	0.550	29.5	2.86	ljl
7015	Aldicarb sulfone	µg/L	26.5	25.8	19.4 - 32.2	Acceptable	EPA 531.1 3.1 1995	8/5/2020	2.63	23.0	1.34	ljl
7020	Aldicarb sulfoxide	µg/L	23.6	20.5	15.4 - 25.6	Acceptable	EPA 531.1 3.1 1995	8/5/2020	2.42	19.0	1.92	ljl
8080	Baygon	µg/L	52.5	48.3	39.6 - 56.8	Acceptable	EPA 531.1 3.1 1995	8/5/2020	1.62	46.8	3.55	ljl
7195	Carbaryl	µg/L	39.4	37.9	28.4 - 47.4	Acceptable	EPA 531.1 3.1 1995	8/5/2020	1.04	36.1	3.17	ljl
7205	Carbofuran	µg/L	43.6	38.8	21.3 - 56.3	Acceptable	EPA 531.1 3.1 1995	8/5/2020	1.01	38.3	5.21	ljl
7710	3-Hydroxycarbofuran	µg/L	70	64.8	51.8 - 77.8	Acceptable	EPA 531.1 3.1 1995	8/5/2020	0.793	64.3	7.21	ljl
7800	Methiocarb	µg/L	135	129	100 - 151	Acceptable	EPA 531.1 3.1 1995	8/5/2020	0.907	121	15.4	ljl
7805	Methomyl	µg/L	21.8	18.6	14.9 - 22.3	Acceptable	EPA 531.1 3.1 1995	8/5/2020	1.34	18.6	2.36	ljl
7940	Oxamyl (vydate)	µg/L	97.8	88.9	66.7 - 111	Acceptable	EPA 531.1 3.1 1995	8/5/2020	1.38	87.0	7.84	ljl

WS Regulated Semivolatiles #2 Herbicides (cat# 849, lot# S288-691)

9390	Diquat	µg/L	17.4	31.8	15.9 - 47.7	Acceptable	EPA 549.2 1 1997	7/27/2020	-2.19	26.3	4.07	ljl
7525	Endothall	µg/L		374	187 - 561	Not Reported				355	84.9	
9411	Glyphosate	µg/L	435	424	339 - 509	Acceptable	EPA 547 1990	7/24/2020	-0.0817	438	38.5	ljl
9528	Paraquat	µg/L		25.6	12.2 - 28.5	Not Reported				22.2	3.43	



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CERTIFICATE OF RECOGNITION

ERA congratulates
Energy Laboratories
WS-288

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

Carbamate/Carbamoxyl oxime Pesticides	Corrosivity	Halomethanes (THMs)
Hardness	Heterotrophic Plate Count	Inorganic Disinfection #2
Inorganics	MicrobE™ (Coliforms)	Nitrite
Regulated Semivolatiles #2 Herbicides	Regulated Volatiles	Turbidity
Uranium	WS SourceWatR™ MicrobE™	



Matthew Seebeck
Quality Officer