



United States Environmental Protection Agency
Office of Enforcement and Compliance Assurance
 1200 Pennsylvania Ave NW, Mail Code 2227A
 Washington, DC 20460

DMR-QA Study 40

(This data is collected under the authority of Section 308 of the Clean Water Act.)

NPDES Permittee Data Report Form

Attention: Follow the instructions on the previous page to complete this form and submit data for evaluation.

Due November 20, 2020

State	NPDES Permit Number	Permit Extension
CA	0024490	

Permittee Name
 McKinleyville Community Services District

Current Permittee Mailing Address
 P.O.Box 2037

City	State	Zip Code
McKinleyville	CA	95519

Phone Number	Fax Number	E-mail
+1 (707) 839-3251	+1 (707) 839-8685	jhenry@mckinleyvillecsd.com

Optional: If WP Study was used, list PT Provider name(s):	Optional: WP Study Number(s)

For DMR-QA Study 40, conducted in 2020, the Permittee ensured that their laboratory(ies) performing the required analyses:

Received PT Samples	Submitted Complete and Accurate Data by September 18, 2020	Received a Graded Report by October 16, 2020
Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

Certification by Permit Holder or Authorized Representative
 (as per 40 CFR Section 122.22)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) permit. Neither I nor any of my subordinates compared our results with results from independent analyses conducted by us or any other laboratory before we reported our results to the U.S.EPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Certifying Official
 James Henry

Title
 Operations Director

Signature

Date
 11/10/2020

Address, phone number and e-mail of certifying official are required if different from above.

Address

Phone Number

City	State	Zip Code

E-mail



United States Environmental Protection Agency
Office of Enforcement and Compliance Assurance
 1200 Pennsylvania Ave NW, Mail Code 2227A
 Washington, DC 20460

DMR-QA Study 40

(This data is collected under the authority of Section 308 of the Clean Water Act.)

Permittee Name	State	NPDES Permit No.	Permit Extension
McKinleyville Community Services District	CA	0024490	

Identification of all CHEM, MICRO and WET laboratories who performed analyses for this permit

Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State-certified Lab**
			Chem	Micro	WET		
North Coast Laboratories, LTD	5680 West End Road Arcata, Ca. 95521	CA00065	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	C	<input type="checkbox"/>
Basic Laboratory Inc.	2218 Railroad Drive Redding, Ca. 96001	CA00381	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Pacific Ecorisk	2250 Cordelia Road Fairfield, Ca. 94534	CA01307	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

* Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State

** See Footnote on page 2 (Frequently Asked Questions) for the current list of states with lab accreditation programs

If you need additional space, please make a copy of this page for additional laboratories.

Chemistry/Microbiology Analyte Checklist DMRQA40

Analyte Test	Test Required	Method Number Used (optional)	Laboratory's Graded Result		Analyte determined by state-certified Lab*
			Acceptable	Not Acceptable (Corrective Action Required)	
Microbiology					
E. Coli., MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fecal Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trace Metals					
Aluminum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antimony	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arsenic	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beryllium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, total	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, hexavalent	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cobalt	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Iron	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manganese	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molybdenum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nickel	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Selenium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Silver	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thallium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vanadium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zinc	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demands					
5-day BOD	<input type="checkbox"/>	SM 5210 B-2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5-day Carbonaceous BOD	<input type="checkbox"/>	SM 5210 B-2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minerals					
Alkalinity, total (CaCO3)	<input type="checkbox"/>	SM 2320 B-1997	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chloride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluoride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hardness, total (CaCO3)	<input type="checkbox"/>	SM 2340 B-1997	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specific conductance (25°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfate	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Dissolved Solids (180°C)	<input type="checkbox"/>	SM 2540 C-1997	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients					
Ammonia as N	<input type="checkbox"/>	SM 4500-NH3 B,D 1997	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrate as N	<input type="checkbox"/>	EPA 300.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrite as N	<input type="checkbox"/>	EPA 300.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Orthophosphate as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl-Nitrogen as N	<input type="checkbox"/>	SM 4500-NH3 B,D 1997	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phosphorous as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Misc. Analytes					
Non-Filterable Residue (TSS)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil and Grease	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Cyanide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phenolics (4-AAP)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Settleable Solids	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name JAMES HENRY

Signature James Henry Date 11/10/2020



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DMRQA40 Graded Results Report

Study: WP0120 for DMRQA40

Opening Date: January 6, 2020 - Closing Date: February 20, 2020

EPA Lab ID: CA00065

Laboratory: North Coast Laboratories, Ltd.
5680 West End Road
Arcata, CA 95521
UNITED STATES
Mr. Jeff Schindler, QA Officer
7078224649

NPDES Permit ID: CA0024490

Permittee Name: MCKINLEYVILLE COMM SERV DIST

Demand (PT-DEM-WP)							Lot #: 8207-07		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
1530	BOD	20135255	SM 5210 B-2001	mg/L	146	148	74.9 - 243	Acceptable	
1555	CBOD	20135255	SM 5210 B-2001	mg/L	146	145	58.9 - 243	Acceptable	
Minerals 1 (PT-MIN1-WP)							Lot #: 8207-08		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
1505	Total Alkalinity(as CaCO3)	20045607	SM 2320 B-1997	mg/L	121	123	103 - 140	Acceptable	
Minerals 2 - Hardness (PT-MIN2-WP)							Lot #: 8207-102		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
1755	Total Hardness (as CaCO3)	20046600	SM 2340 B-1997	mg/L	109	116	92.3 - 125	Acceptable	
Solids (PT-SOL-WP)							Lot #: 8207-09B		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
1955	Total Dissolved Solids at 180° (TFR)	20050402	SM 2540 C-1997	mg/L	192	183	147 - 237	Acceptable	
Nutrients 1 - Simple (PT-NUT1-WP)							Lot #: 8207-10		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
1515	Ammonia as N	20109404	SM 4500-NH3 B,D 1997	mg/L	11.0	10.8	8.75 - 13.1	Acceptable	
1810	Nitrate as N	10065006	EPA 300.0	mg/L	5.44	5.63	4.40 - 6.44	Acceptable	
Nutrients 2 - Complex (PT-NUT2-WP)							Lot #: 8207-11		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation	
1795	Total Kjeldahl Nitrogen (TKN)	20109404	SM 4500-NH3 B,D 1997	mg/L	14.4	13.4	10.7 - 17.7	Acceptable	

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DMRQA40 Graded Results Report

Study: WP0120 for DMRQA40

Opening Date: January 6, 2020 - Closing Date: February 20, 2020

EPA Lab ID: CA00065

Laboratory: North Coast Laboratories, Ltd.
5680 West End Road
Arcata, CA 95521
UNITED STATES
Mr. Jeff Schindler, QA Officer
7078224649

NPDES Permit ID: CA0024490

Permittee Name: MCKINLEYVILLE COMM SERV DIST

Nutrients 3 - Nitrite (PT-NUT3-WP)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1840	Nitrite as N	10053006	EPA 300.0	mg/L	3.10	3.11	2.68 - 3.53	Acceptable

Lot #: 8207-69



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DMRQA40 Graded Results Report

Study: WPM0120 for DMRQA40

Opening Date: January 21, 2020 - Closing Date: February 6, 2020

EPA Lab ID: CA00065

Laboratory: North Coast Laboratories, Ltd.
5680 West End Road
Arcata, CA 95521
UNITED STATES
Mr. Jeff Schindler, QA Officer
7078224649

NPDES Permit ID: CA0024490

Permittee Name: MCKINLEYVILLE COMM SERV DIST

Micro (PT-MIC-WP)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
2530	Fecal Coliform, MPN	20196650	SM 9221 E + C-2006	MPN/100 mL	541	350	200 - 1460	Acceptable
2525	E. Coli, MPN	20211614	SM 9223 B (Colliert Quanti-Tray) 2004	MPN/100 mL	576	613	244 - 1360	Acceptable
2500	Total Coliform, MPN	20191257	SM 9221 B-2006	MPN/100 mL	557	350	237 - 1310	Acceptable
2500	Total Coliform, MPN	20211614	SM 9223 B (Colliert Quanti-Tray) 2004	MPN/100 mL	557	613	237 - 1310	Acceptable

Lot #: 5324-12B

Chemistry/Microbiology Analyte Checklist

DMR-QA Study 40

Analyte Test	Test Required	Method Number Used (optional)	Laboratory's Graded Result		Analyte determined by state-certified lab*
			Acceptable	Not Acceptable (Corrective Action Required)	
Microbiology					
E. coli, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fecal Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Coliform, MF or MPN	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trace Metals					
Aluminum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antimony	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Arsenic	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Barium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beryllium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chromium, total	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromium, hexavalent	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cobalt	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Iron	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Manganese	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury (Low Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Molybdenum	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nickel	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Selenium	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Silver	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Thallium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vanadium	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zinc	<input checked="" type="checkbox"/>	EPA 1638 1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Demands					
5-day BOD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5-day Carbonaceous BOD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COD	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minerals					
Alkalinity, total (CaCO ₃)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chloride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluoride	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hardness, total (CaCO ₃)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specific conductance (25°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfate	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Dissolved Solids (180°C)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients					
Ammonia as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrate as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrite as N	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Orthophosphate as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Kjeldahl-Nitrogen as N	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Total Phosphorus as P	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Misc. Analytes					
Non-Filterable Residue (TSS)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oil and Grease	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Cyanide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Phenolics (4-AAP)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Residual Chlorine (Low Level)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Settleable Solids	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name JAMES HENRY Signature James Henry Date 11/10/2020

* See Footnote on page 2.



WP-300 Final Evaluation Report

A Waters Company

Josh Kirkpatrick
Quality Assurance Manager
Basic Laboratory, Inc.
2218 Railroad Ave
Redding, CA 96001
(530) 243-7234-204

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

CA00381
B062101
03/02/20
01/13/20 - 02/27/20

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
VP Minerals (cat# 581, lot# P300-506)												
1505	Alkalinity as CaCO3	mg/L	46	50.7	43.1 - 58.3	Acceptable	SM 2320 B-2011 2011	1/21/2020	-1.35	49.5	2.61	Rebecca Goerner
1575	Chloride	mg/L	74.6	76.0	66.4 - 85.8	Acceptable	EPA 800.0 2.1 1993	1/28/2020	-0.0534	74.7	2.41	Rebecca Goerner
1610	Conductivity at 25°C	µmhos/cm	456	456	412 - 504	Acceptable	SM 2510 B-2011 2011	1/21/2020	0.0170	456	14.1	Rebecca Goerner
1730	Fluoride	mg/L	3.25	3.47	2.81 - 3.99	Acceptable	EPA 800.0 2.1 1993	1/27/2020	-0.812	3.38	0.166	Rebecca Goerner
1125	Potassium	mg/L	33.4	35.2	28.2 - 42.2	Acceptable	EPA 200.7 4.4 1994	1/30/2020	-0.559	34.4	1.73	Brittany Light
1155	Sodium	mg/L	67.6	71.8	57.4 - 86.2	Acceptable	EPA 200.7 4.4 1994	1/30/2020	-0.597	70.0	4.03	Brittany Light
2000	Sulfate	mg/L	32.7	34.4	27.9 - 39.6	Acceptable	EPA 800.0 2.1 1993	1/27/2020	-0.300	33.2	1.60	Rebecca Goerner
1955	Total Dissolved Solids at 180°C	mg/L	296	296	251 - 341	Acceptable	SM 2540 C-2011 2011	1/29/2020	0.0174	296	14.5	Jared Bradley
1950	Total Solids at 105°C	mg/L	305	306	261 - 361	Acceptable	SM 2540 B-2011 2011	1/30/2020	0.0430	304	17.4	Jon Carlee

VP Minerals (cat# 581, lot# P300-506)												
1505	Alkalinity as CaCO3	mg/L		50.7	43.1 - 58.3	Not Reported				49.5	2.61	
1575	Chloride	mg/L		76.0	66.4 - 85.8	Not Reported				74.7	2.41	
1610	Conductivity at 25°C	µmhos/cm		456	412 - 504	Not Reported				456	14.1	
1730	Fluoride	mg/L		3.47	2.81 - 3.99	Not Reported				3.38	0.166	
1125	Potassium	mg/L	35.7	35.2	28.2 - 42.2	Acceptable	EPA 200.7 4.4 1994	2/6/2020	0.770	34.4	1.73	Eric Mathews
1155	Sodium	mg/L	77.3	71.8	57.4 - 86.2	Acceptable	EPA 200.7 4.4 1994	2/6/2020	1.81	70.0	4.03	Eric Mathews
2000	Sulfate	mg/L		34.4	27.9 - 39.6	Not Reported				33.2	1.60	
1955	Total Dissolved Solids at 180°C	mg/L		296	251 - 341	Not Reported				296	14.5	
1950	Total Solids at 105°C	mg/L		306	261 - 361	Not Reported				304	17.4	

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.

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

Study #: WP-300





A Waters Company

WP-300 Final Evaluation Report

Josh Kirkpatrick
Quality Assurance Manager
Basic Laboratory, Inc.
2218 Railroad Ave
Redding, CA 96001
(530) 243-7234-204

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

CA00381
B062101
03/02/20
01/13/20 - 02/27/20

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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VP Hardness (cat# 580, lot# P300-507)

1960	Total Suspended Solids	mg/L	67.2	71.3	57.6 - 79.9	Acceptable	SM 2540 B-2011 2011	1/29/2020	0.178	66.6	3.64	Marie McCullough
1035	Calcium	mg/L	36.2	37.0	31.4 - 42.6	Acceptable	EPA 200.7.4.4 1994	1/30/2020	0.112	36.0	1.55	Brittany Light
1085	Magnesium	mg/L	38.0	37.1	31.5 - 42.7	Acceptable	EPA 200.7.4.4 1994	1/30/2020	0.760	36.9	1.50	Brittany Light
1550	Calcium Hardness as CaCO3	mg/L		92.4	78.5 - 106	Not Reported				89.7	3.75	
1755	Total Hardness as CaCO3	mg/L	247	245	208 - 282	Acceptable	EPA 200.7.4.4 1994	1/30/2020	0.722	240	9.46	Brittany Light

VP Hardness (cat# 580, lot# P300-507)

1960	Total Suspended Solids	mg/L		71.3	57.6 - 79.9	Not Reported				66.6	3.64	
1035	Calcium	mg/L	36.7	37.0	31.4 - 42.6	Acceptable	EPA 200.8.5.4 1994	2/6/2020	0.433	36.0	1.55	Eric Mathews
1085	Magnesium	mg/L	39.8	37.1	31.5 - 42.7	Acceptable	EPA 200.8.5.4 1994	2/6/2020	1.196	36.9	1.50	Eric Mathews
1550	Calcium Hardness as CaCO3	mg/L		92.4	78.5 - 106	Not Reported				89.7	3.75	
1755	Total Hardness as CaCO3	mg/L		245	208 - 282	Not Reported				240	9.46	

VP Hardness (cat# 580, lot# P300-507)

1960	Total Suspended Solids	mg/L		71.3	57.6 - 79.9	Not Reported				66.6	3.64	
1035	Calcium	mg/L		37.0	31.4 - 42.6	Not Reported				36.0	1.55	
1085	Magnesium	mg/L		37.1	31.5 - 42.7	Not Reported				36.9	1.50	
1550	Calcium Hardness as CaCO3	mg/L		92.4	78.5 - 106	Not Reported				89.7	3.75	
1755	Total Hardness as CaCO3	mg/L	247	245	208 - 282	Acceptable	SM 2540 B-2011 2011	1/30/2020	0.722	240	9.46	Brittany Light

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Study #: WP-300





WP-300 Final Evaluation Report

A Waters Company

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EPA ID:
ERA Customer Number:
Report Issued:
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VP Hardness (cat# 580, lot# P300-507)												
1960	Total Suspended Solids	mg/L		71.3	57.6 - 79.9	Not Reported				66.6	3.64	
1035	Calcium	mg/L		37.0	31.4 - 42.6	Not Reported				36.0	1.55	
1085	Magnesium	mg/L		37.1	31.5 - 42.7	Not Reported				36.9	1.50	
1550	Calcium Hardness as CaCO3	mg/L		92.4	78.5 - 106	Not Reported				89.7	3.75	
1755	Total Hardness as CaCO3	mg/L	234	245	206 - 282	Acceptable	SM 2940 C-2011 2011	1/24/2020	-0.652	240	9.46	Jared Bradley
VP pH (cat# 577, lot# P300-977)												
1900	pH	S.U.	6.72	6.70	6.50 - 6.90	Acceptable	SM 1500-H-8-2011 2011	1/28/2020	0.353	6.71	0.0401	Jon Carlee
VP pH (cat# 577, lot# P300-977)												
1900	pH	S.U.	6.72	6.70	6.50 - 6.90	Acceptable	EPA 9040B 2 1995	1/28/2020	0.353	6.71	0.0401	Jon Carlee
VP Settleable Solids (cat# 883, lot# P300-911)												
1965	Settleable Solids	mL/L	17.0	18.2	14.4 - 23.6	Acceptable	SM 2540 F-2011 2011	1/23/2020	-1.45	19.2	1.55	Jon Carlee
VP Simple Nutrients (cat# 584, lot# P300-505)												
1515	Ammonia as N	mg/L	3.97	3.88	2.95 - 4.86	Acceptable	EPA 350.1 2 1993	1/27/2020	0.0152	3.97	0.286	Jon Carlee
1820	Nitrate + Nitrite as N	mg/L	5.73	5.65	4.64 - 6.61	Acceptable	EPA 353.2 2 1993	1/27/2020	0.453	5.60	0.286	Jon Carlee
1810	Nitrate as N	mg/L	5.73	5.65	4.59 - 6.60	Acceptable	EPA 353.4 (calc)	1/27/2020	0.467	5.58	0.292	Jon Carlee
1870	ortho-Phosphate as P	mg/L	3.04	3.11	2.64 - 3.58	Acceptable	SM 4600-P E-2011 2011	1/27/2020	-0.626	3.15	0.176	Jon Carlee

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Study # : WP-300



A Waters Company

WP-300 Final Evaluation Report

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VP Trace Metals (cat# 586, lot# P300-500)												
1000	Aluminum	µg/L	1940	1860	1560 - 2160	Acceptable	EPA 6020	2/7/2020	0.156	1920	109	Eric Mathews
1005	Antimony	µg/L	258	257	188 - 307	Acceptable	EPA 6020	2/7/2020	0.348	253	16.5	Eric Mathews
1010	Arsenic	µg/L	787	772	664 - 880	Acceptable	EPA 6020	2/7/2020	1.42	744	30.3	Eric Mathews
1015	Barium	µg/L	861	840	714 - 966	Acceptable	EPA 6020	2/7/2020	0.524	845	31.5	Eric Mathews
1020	Beryllium	µg/L	309	313	266 - 360	Acceptable	EPA 6020	2/7/2020	-0.0885	310	14.2	Eric Mathews
1025	Boron	µg/L	942	936	796 - 1080	Acceptable	EPA 6020	2/7/2020	0.0667	938	53.1	Eric Mathews
1030	Cadmium	µg/L	853	851	723 - 979	Acceptable	EPA 6020	2/7/2020	0.295	843	33.1	Eric Mathews
1040	Chromium	µg/L	521	533	453 - 613	Acceptable	EPA 6020	2/7/2020	-0.780	537	20.9	Eric Mathews
1060	Cobalt	µg/L	115	110	93.5 - 126	Acceptable	EPA 6020	2/7/2020	0.0776	115	5.46	Eric Mathews
1055	Copper	µg/L	293	296	252 - 340	Acceptable	EPA 6020	2/7/2020	-0.290	297	14.0	Eric Mathews
1070	Iron	µg/L	3300	3350	2850 - 3850	Acceptable	EPA 6020	2/7/2020	-0.492	3370	140	Eric Mathews
1075	Lead	µg/L	642	648	551 - 745	Acceptable	EPA 6020	2/7/2020	-0.386	654	29.8	Eric Mathews
1090	Manganese	µg/L	1500	1500	1280 - 1720	Acceptable	EPA 6020	2/7/2020	-0.640	1540	62.7	Eric Mathews
1100	Molybdenum	µg/L	76.1	79.9	62.8 - 95.9	Acceptable	EPA 6020	2/7/2020	-0.785	79.2	3.94	Eric Mathews
1106	Nickel	µg/L	1730	1710	1510 - 1910	Acceptable	EPA 6020	2/7/2020	-0.0895	1740	75.5	Eric Mathews
1140	Selenium	µg/L	484	510	434 - 586	Acceptable	EPA 6020	2/7/2020	-0.882	508	24.0	Eric Mathews
1150	Silver	µg/L	549	578	491 - 665	Acceptable	EPA 6020	2/7/2020	-0.980	583	34.5	Eric Mathews
1160	Strontium	µg/L	306	288	246 - 331	Acceptable	EPA 6020	2/7/2020	1.33	291	11.3	Eric Mathews
1165	Thallium	µg/L	661	662	549 - 764	Acceptable	EPA 6020	2/7/2020	-0.104	665	33.9	Eric Mathews
1185	Vanadium	µg/L	584	598	508 - 688	Acceptable	EPA 6020	2/7/2020	-0.351	592	23.0	Eric Mathews



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A Waters Company

WP-300 Final Evaluation Report

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EPA ID: CA00381
ERA Customer Number: B062101
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VP Trace Metals (cat# 586, lot# P300-500) (Continued)

1190	Zinc	µg/L	1600	1600	1360 - 1840	Acceptable	EPA 6020	2/7/2020	-0.0689	1610	74.4	Eric Mathews
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VP Trace Metals (cat# 586, lot# P300-500)												
1000	Aluminum	µg/L	1900	1880	1560 - 2160	Acceptable	EPA 1631 1996	2/14/2020	-0.212	1920	109	Eric Mathews
1005	Antimony	µg/L	247	257	198 - 307	Acceptable	EPA 1631 1996	2/14/2020	-0.360	253	15.5	Eric Mathews
1010	Arsenic	µg/L	731	772	654 - 880	Acceptable	EPA 1631 1996	2/14/2020	-0.430	744	30.3	Eric Mathews
1015	Barium	µg/L	842	840	714 - 966	Acceptable	EPA 1631 1996	2/14/2020	-0.0799	845	31.5	Eric Mathews
1020	Beryllium	µg/L	306	313	266 - 360	Acceptable	EPA 1631 1996	2/14/2020	-0.300	310	12.2	Eric Mathews
1025	Boron	µg/L	912	936	798 - 1080	Acceptable	EPA 1631 1996	2/14/2020	-0.498	938	53.1	Eric Mathews
1030	Cadmium	µg/L	832	851	723 - 979	Acceptable	EPA 1631 1996	2/14/2020	-0.340	843	39.1	Eric Mathews
1040	Chromium	µg/L	533	533	453 - 613	Acceptable	EPA 1631 1996	2/14/2020	-0.205	537	20.9	Eric Mathews
1050	Cobalt	µg/L	110	110	93.5 - 126	Acceptable	EPA 1631 1996	2/14/2020	-0.838	115	5.46	Eric Mathews
1055	Copper	µg/L	289	296	252 - 340	Acceptable	EPA 1631 1996	2/14/2020	-0.577	297	14.0	Eric Mathews
1070	Iron	µg/L	3240	3350	2850 - 3850	Acceptable	EPA 1631 1996	2/14/2020	-0.922	3370	140	Eric Mathews
1075	Lead	µg/L	644	648	551 - 745	Acceptable	EPA 1631 1996	2/14/2020	-0.319	654	29.8	Eric Mathews
1090	Manganese	µg/L	1500	1500	1280 - 1720	Acceptable	EPA 1631 1996	2/14/2020	-0.640	1540	62.7	Eric Mathews
1100	Molybdenum	µg/L	77.3	79.9	62.8 - 95.9	Acceptable	EPA 1631 1996	2/14/2020	-0.480	79.2	3.94	Eric Mathews
1105	Nickel	µg/L	1660	1710	1510 - 1910	Acceptable	EPA 1631 1996	2/14/2020	-1.02	1740	75.5	Eric Mathews
1140	Selenium	µg/L	485	510	434 - 586	Acceptable	EPA 1631 1996	2/14/2020	-0.940	508	24.0	Eric Mathews
1150	Silver	µg/L	577	578	491 - 665	Acceptable	EPA 1631 1996	2/14/2020	-0.165	583	34.5	Eric Mathews
1160	Strontium	µg/L	278	268	245 - 331	Acceptable	EPA 1631 1996	2/14/2020	-1.15	291	11.3	Eric Mathews
1165	Thallium	µg/L	660	662	549 - 764	Acceptable	EPA 1631 1996	2/14/2020	-0.133	665	39.9	Eric Mathews
1185	Vanadium	µg/L	583	598	508 - 688	Acceptable	EPA 1631 1996	2/14/2020	-0.394	592	23.0	Eric Mathews



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A Waters Company

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VP Trace Metals (cat# 586, lot# P300-500) (Continued)

1190	Zinc	µg/L	1570	1600	1380 - 1840	Acceptable	EPA 1631 1996	2/14/2020	0.472	1610	74.4	Eric Matthews
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VP Trace Metals (cat# 586, lot# P300-500)												
1000	Aluminum	µg/L		1880	1560 - 2160	Not Reported				1920	109	
1005	Antimony	µg/L		257	198 - 307	Not Reported				253	16.5	
1010	Arsenic	µg/L		772	654 - 880	Not Reported				744	30.3	
1015	Barium	µg/L		840	714 - 966	Not Reported				845	31.5	
1020	Beryllium	µg/L		313	266 - 360	Not Reported				310	14.2	
1025	Boron	µg/L		936	796 - 1080	Not Reported				938	53.1	
1030	Cadmium	µg/L	960	851	723 - 979	Acceptable	EPA 7131A (1-199)	2/7/2020	-3.53	843	33.1	Taylor Needham
1040	Chromium	µg/L		533	453 - 613	Not Reported				537	20.9	
1050	Cobalt	µg/L		110	93.5 - 126	Not Reported				115	5.46	
1055	Copper	µg/L		296	252 - 340	Not Reported				297	14.0	
1070	Iron	µg/L		3350	2850 - 3850	Not Reported				3370	140	
1075	Lead	µg/L		648	551 - 745	Not Reported				654	29.8	
1090	Manganese	µg/L		1500	1280 - 1720	Not Reported				1540	62.7	
1100	Molybdenum	µg/L		79.9	62.8 - 95.9	Not Reported				79.2	3.94	
1105	Nickel	µg/L		1710	1510 - 1910	Not Reported				1740	75.5	
1140	Selenium	µg/L		510	434 - 586	Not Reported				508	24.0	
1150	Silver	µg/L		578	491 - 665	Not Reported				583	34.5	
1160	Strontium	µg/L		288	245 - 331	Not Reported				291	11.3	
1165	Thallium	µg/L		662	549 - 764	Not Reported				665	33.9	
1185	Vanadium	µg/L		598	508 - 688	Not Reported				592	23.0	

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VP Trace Metals (cat# 586, lot# P300-500) (Continued)												
1190	Zinc	µg/L		1600	1360 - 1840	Not Reported				1610	74.4	
VP Mercury (cat# 574, lot# P300-514)												
1095	Mercury	µg/L	5.28	5.29	3.70 - 6.88	Acceptable	EPA 245.13-1994	1/28/2020	0.310	5.11	0.562	Alysa Castillo
VP Mercury (cat# 574, lot# P300-514)												
1096	Mercury	µg/L	5.28	5.29	3.70 - 6.88	Acceptable	EPA 7470A-1-1994	1/28/2020	0.310	5.11	0.562	Alysa Castillo
VP Low-Level Mercury (cat# 896, lot# P300-931)												
1095	Low Level Mercury	ng/L	60.5	60.0	44.2 - 75.2	Acceptable	EPA 1631E-2002	1/30/2020	-0.0742	61.1	7.81	Donnella Cardwell
VP Hexavalent Chromium (cat# 898, lot# P300-984)												
1045	Hexavalent Chromium	µg/L	880	852	718 - 974	Acceptable	EPA 218.8-3-1994	1/24/2020	-0.994	842	37.6	Erich Bowman
VP Hexavalent Chromium (cat# 898, lot# P300-984)												
1045	Hexavalent Chromium	µg/L	820	852	718 - 974	Acceptable	SM 3500-Cr B-2011.2011	1/24/2020	-0.592	842	37.8	Jon Cartee
VP Hexavalent Chromium (cat# 898, lot# P300-984)												
1045	Hexavalent Chromium	µg/L	820	852	718 - 974	Acceptable	EPA 7196A-1-1992	1/24/2020	-0.592	842	37.6	Jon Cartee
VP Turbidity (cat# 893, lot# P300-777)												
2055	Turbidity	NTU	4.2	4.05	2.98 - 5.08	Acceptable	SM 2155-B-2011.2011	1/23/2020	0.805	3.99	0.264	Jared Bradley
VP Turbidity (cat# 893, lot# P300-777)												
2055	Turbidity	NTU	4.2	4.05	2.98 - 5.08	Acceptable	EPA 180.1-2-1993	1/23/2020	0.805	3.99	0.264	Jared Bradley
VP Total Cyanide (cat# 588, lot# P300-502)												
1645	Cyanide, total	mg/L	0.507	0.452	0.320 - 0.684	Acceptable	SM 4500-CN E-2011.2011	1/28/2020	0.464	0.485	0.0478	Rebecca Garner
1510	Ammoniacal Cyanide	mg/L		0.254	0.165 - 0.343	Not Reported				0.287	0.0824	

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VP Total Cyanide (cat# 588, lot# P300-502)												
1645	Cyanide, total	mg/L	0.507	0.492	0.320 - 0.664	Acceptable	EPA 9014-1996	1/28/2020	0.464	0.485	0.0478	Rebecca Goerner
1510	Amenable Cyanide	mg/L		0.254	0.165 - 0.343	Not Reported				0.287	0.0824	
VP Total Cyanide (cat# 588, lot# P300-502)												
1645	Cyanide, total	mg/L	0.488	0.492	0.320 - 0.664	Acceptable	EPA 335.4-1993	1/23/2020	0.0663	0.485	0.0478	Rebecca Goerner
1510	Amenable Cyanide	mg/L		0.254	0.165 - 0.343	Not Reported				0.287	0.0824	
VP Total Phenolics (4-AAP) (cat# 589, lot# P300-515)												
1905	Phenolics, total	mg/L	1.15	1.02	0.514 - 1.54	Acceptable	EPA 420.1-1978	1/30/2020	0.616	1.04	0.171	Jon Cartee
VP Total Residual Chlorine (cat# 587, lot# P300-501)												
1945	Free Residual Chlorine	mg/L	0.65	0.621	0.469 - 0.770	Acceptable	SM 4500-Cl-G-2011 2011	2/13/2020	0.548	0.617	0.0695	Jon Cartee
1940	Total Residual Chlorine	mg/L	0.68	0.628	0.475 - 0.778	Acceptable	SM 4500-Cl-G-2011 2011	2/13/2020	0.682	0.652	0.0410	Jon Cartee

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Study #: WP-300





A Waters Company

WP-300 Final Evaluation Report

Josh Kirkpatrick
 Quality Assurance Manager
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 2218 Railroad Ave
 Redding, CA 96001
 (530) 243-7234-204

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

CA00381
 B062101
 03/02/20
 01/13/20 - 02/27/20

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
VP Trace Metals (cat# 586, lot# P300-500)												
1000	Aluminum	µg/L	1850	1880	1560 - 2160	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.672	1920	109	Brittany Light
1005	Antimony	µg/L	233	257	198 - 307	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-1.26	253	15.5	Brittany Light
1010	Arsenic	µg/L	733	772	654 - 880	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.364	744	30.3	Brittany Light
1015	Barium	µg/L	814	840	714 - 986	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.970	845	31.5	Brittany Light
1020	Beryllium	µg/L	301	313	265 - 360	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.652	310	14.2	Brittany Light
1025	Boron	µg/L	840	936	795 - 1080	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-1.85	938	53.1	Brittany Light
1030	Cadmium	µg/L	811	851	723 - 979	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.975	843	33.1	Brittany Light
1040	Chromium	µg/L	523	533	453 - 613	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.684	537	20.9	Brittany Light
1050	Cobalt	µg/L	110	110	93.5 - 126	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.838	115	5.46	Brittany Light
1055	Copper	µg/L	285	296	252 - 340	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.663	297	14.0	Brittany Light
1070	Iron	µg/L	3230	3350	2850 - 3850	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.993	3370	140	Brittany Light
1075	Lead	µg/L	634	648	551 - 745	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.655	654	29.8	Brittany Light
1090	Manganese	µg/L	1520	1500	1280 - 1720	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.321	1540	62.7	Brittany Light
1100	Molybdenum	µg/L	77.8	79.9	62.8 - 95.9	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-0.353	79.2	3.94	Brittany Light
1105	Nickel	µg/L	1640	1710	1510 - 1910	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-1.28	1740	75.5	Brittany Light
1140	Selenium	µg/L	453	510	434 - 586	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-2.28	508	24.0	Brittany Light
1150	Silver	µg/L	547	578	491 - 665	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-1.04	583	34.5	Brittany Light
1160	Strontium	µg/L	273	288	245 - 331	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-1.59	291	11.3	Brittany Light
1185	Thallium	µg/L	628	662	549 - 764	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-1.08	665	33.9	Brittany Light
1185	Vanadium	µg/L	568	598	508 - 688	Acceptable	EPA 200.7.4.4 1994	2/3/2020	-1.05	592	23.0	Brittany Light



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Study #: WP-300



A Waters Company

WP-300 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
<i>VP Trace Metals (cat# 586, lot# P300-500) (Continued)</i>												
1190	Zinc	µg/L	1510	1600	1360 - 1840	Acceptable	EPA 200.7.4.4-1B94	2/3/2020	-1.29	1610	74.4	Britany Light

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VP Trace Metals (cat# 586, lot# P300-500)												
1000	Aluminum	µg/L	1900	1880	1580 - 2160	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.212	1920	109	Brittany Light
1005	Antimony	µg/L	235	257	198 - 307	Acceptable	EPA 6010B 2 1996	2/3/2020	-1.13	253	15.5	Brittany Light
1010	Arsenic	µg/L	735	772	654 - 880	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.298	744	30.3	Brittany Light
1015	Barium	µg/L	816	840	714 - 966	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.906	845	31.5	Brittany Light
1020	Beryllium	µg/L	303	313	266 - 360	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.511	310	17.2	Brittany Light
1025	Boron	µg/L	855	936	796 - 1080	Acceptable	EPA 6010B 2 1996	2/3/2020	-1.57	938	53.1	Brittany Light
1030	Cadmium	µg/L	811	85	723 - 979	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.975	843	33.1	Brittany Light
1040	Chromium	µg/L	526	533	453 - 613	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.540	537	20.9	Brittany Light
1050	Cobalt	µg/L	111	110	93.5 - 126	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.655	115	5.46	Brittany Light
1055	Copper	µg/L	289	296	262 - 340	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.577	297	14.0	Brittany Light
1070	Iron	µg/L	3260	3350	2850 - 3850	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.778	3370	140	Brittany Light
1075	Lead	µg/L	635	648	551 - 745	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.621	654	29.8	Brittany Light
1090	Manganese	µg/L	1520	1500	1280 - 1720	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.321	1540	62.7	Brittany Light
1100	Molybdenum	µg/L	77.8	79.9	62.8 - 95.9	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.353	79.2	3.94	Brittany Light
1105	Nickel	µg/L	1640	1710	1510 - 1910	Acceptable	EPA 6010B 2 1996	2/3/2020	-1.28	1740	75.5	Brittany Light
1140	Selenium	µg/L	454	510	434 - 586	Acceptable	EPA 6010B 2 1996	2/3/2020	-2.23	508	24.0	Brittany Light
1150	Silver	µg/L	554	578	491 - 665	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.835	583	34.5	Brittany Light
1160	Strontium	µg/L	274	288	245 - 331	Acceptable	EPA 6010B 2 1996	2/3/2020	-1.50	291	11.3	Brittany Light
1165	Thallium	µg/L	636	662	549 - 764	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.841	665	33.9	Brittany Light
1185	Vanadium	µg/L	572	598	508 - 688	Acceptable	EPA 6010B 2 1996	2/3/2020	-0.873	592	23.0	Brittany Light

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VP Trace Metals (cat# 586, lot# P300-500) (Continued)

1190	Zinc	µg/L	1520	1600	1360 - 1840	Acceptable	EPA 6010B 2/1996	2/3/2020	-1.14	1610	74.4	Brittany Light
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VP Trace Metals (cat# 586, lot# P300-600)												
1000	Aluminum	µg/L	1890	1880	1560 - 2160	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.304	1920	109	Eric Mathews
1005	Antimony	µg/L	244	257	198 - 307	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.553	253	15.5	Eric Mathews
1010	Arsenic	µg/L	730	772	654 - 880	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.463	744	30.3	Eric Mathews
1015	Barium	µg/L	793	840	714 - 986	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-1.64	845	31.5	Eric Mathews
1020	Beryllium	µg/L	286	313	266 - 360	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-1.71	310	14.2	Eric Mathews
1025	Boron	µg/L	943	936	796 - 1080	Acceptable	EPA 200.8 5.4 1994	2/7/2020	0.0855	938	53.1	Eric Mathews
1030	Cadmium	µg/L	806	851	723 - 979	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-1.13	843	33.1	Eric Mathews
1040	Chromium	µg/L	515	533	453 - 613	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-1.07	537	20.9	Eric Mathews
1050	Cobalt	µg/L	116	110	93.5 - 126	Acceptable	EPA 200.8 5.4 1994	2/7/2020	0.261	115	5.46	Eric Mathews
1055	Copper	µg/L	297	296	252 - 340	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.00382	297	14.0	Eric Mathews
1070	Iron	µg/L	3280	3350	2850 - 3850	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.635	3370	140	Eric Mathews
1075	Lead	µg/L	634	648	551 - 745	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.655	654	29.8	Eric Mathews
1090	Manganese	µg/L	1480	1500	1280 - 1720	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.959	1540	62.7	Eric Mathews
1100	Molybdenum	µg/L	73.3	79.9	62.8 - 95.9	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-1.50	79.2	3.94	Eric Mathews
1105	Nickel	µg/L	1700	1710	1510 - 1810	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.487	1740	75.5	Eric Mathews
1140	Selenium	µg/L	470	510	434 - 586	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-1.57	508	24.0	Eric Mathews
1150	Silver	µg/L	549	376	491 - 665	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.980	583	34.5	Eric Mathews
1160	Strontium	µg/L	277	288	245 - 331	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-1.24	291	11.3	Eric Mathews
1165	Thallium	µg/L	661	662	549 - 764	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.104	665	33.9	Eric Mathews
1185	Vanadium	µg/L	580	598	508 - 688	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.525	592	23.0	Eric Mathews

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Study #: WP-300



A Waters Company

WP-300 Final Evaluation Report

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VP Trace Metals (cat# 586, lot# P300-500) (Continued)

1190	Zinc	ug/L	1540	1600	1360 - 1840	Acceptable	EPA 200.8.5-4.1994	2/7/2020	-0.875	1610	74.4	Eric Matthews
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VP Simple Nutrients (cat# 584, lot# P300-505)												
1515	Ammonia as N	mg/L		3.88	2.95 - 4.86	Not Reported				3.97	0.286	
1820	Nitrate + Nitrite as N	mg/L	5.52	5.65	4.64 - 6.61	Acceptable	EPA 300.0 2.1 1993	1/28/2020	-0.281	5.60	0.286	Jon Carlee
1510	Nitrate as N	mg/L	5.52	5.65	4.59 - 6.69	Acceptable	EPA 300.0 2.1 1993	1/28/2020	-0.252	5.59	0.292	Jon Carlee
1870	ortho-Phosphate as P	mg/L		3.11	2.64 - 3.58	Not Reported				3.15	0.176	
VP Complex Nutrients (cat# 579, lot# P300-525)												
1795	Total Kjeldahl Nitrogen	mg/L	32.0	32.0	24.2 - 38.4	Acceptable	EPA 351.2 2 1993	1/31/2020	0.481	31.1	1.85	Jon Carlee
1910	Total phosphorus as P	mg/L	7.88	8.24	6.87 - 9.52	Acceptable	SM 4590-P-E-2011 2011	1/27/2020	-0.758	8.18	0.393	Jon Carlee
VP Nitrite (cat# 888, lot# P300-770)												
1840	Nitrite as N	mg/L	2.30	2.30	1.97 - 2.64	Acceptable	EPA 333.2 2 1993	1/27/2020	-0.102	2.31	0.120	Jon Carlee
VP Nitrite (cat# 888, lot# P300-770)												
1840	Nitrite as N	mg/L	2.28	2.30	1.97 - 2.64	Acceptable	EPA 333.2 2 1993	1/28/2020	-0.270	2.31	0.120	Jon Carlee
VP Nitrite (cat# 888, lot# P300-770)												
1840	Nitrite as N	mg/L	2.11	2.30	1.97 - 2.64	Acceptable	SM 4500-NO2-B-2011 2011	1/27/2020	-1.69	2.31	0.120	Jon Carlee
VP Demand (cat# 578, lot# P300-516)												
1530	BOD	mg/L	93	79.9	42.6 - 117	Acceptable	SM 5210 B-2011 2011	1/29/2020	0.863	81.9	12.8	Rebecca Goerner
1555	CBOD	mg/L	85	72.4	33.2 - 112	Acceptable	SM 5210 B-2011 2011	1/29/2020	0.681	75.6	13.8	Rebecca Goerner
1565	COD	mg/L	123	130	102 - 154	Acceptable	SM 5220 D-2011 2011	1/24/2020	-0.720	130	9.53	Jared Bradley
2040	TOC	mg/L	52.7	51.4	42.8 - 59.5	Acceptable	SM 5310 C-2011 2011	1/29/2020	0.174	52.1	3.33	Erich Bowman

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VP Demand (cat# 578, lot# P300-516)

1530	BOD	mg/L		79.9	42.6 - 117	Not Reported				81.9	12.8	
1555	CBOD	mg/L		72.4	33.2 - 112	Not Reported				75.6	13.8	
1565	COD	mg/L	123	130	102 - 154	Acceptable	HACH 8000	1/24/2020	-0.720	130	9.53	Jared Bradley
2040	TOC	mg/L		51.4	42.8 - 59.5	Not Reported				52.1	3.33	

VP Oil & Grease (cat# 582, lot# P300-518)

1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	106	110	78.8 - 127	Acceptable	EPA 1664A (HEM) 1999	1/29/2020	0.168	105	7.67	Erich Bowman
1803	n-Hexane Extractable Material(O&G)(IR)	mg/L		135	98.2 - 155	Not Reported				110	50.6	

VP Oil & Grease (cat# 582, lot# P300-518)

1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	106	110	78.8 - 127	Acceptable	EPA 1664A (HEM) 2010	1/29/2020	0.168	105	7.67	Erich Bowman
1803	n-Hexane Extractable Material(O&G)(IR)	mg/L		135	98.2 - 155	Not Reported				110	50.6	

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VP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P300-083)

2500	Total Coliforms (MF)	CFU/100mL		833	392 - 1050	Not Reported				641	109	
2530	Fecal Coliforms (MF)	CFU/100mL		548	93.0 - 1040	Not Reported				312	159	
2525	E.coli (MF)	CFU/100mL		533	104 - 1700	Not Reported				421	266	
2500	Total Coliforms (MPN)	MPN/100mL	1050	780	489 - 2170	Acceptable	SM 9223 B (Collett-18 Quant-Tray)-2004 2004	2/6/2020	0.00938	1030	280	Alysa Castillo
2530	Fecal Coliforms (MPN)	MPN/100ml		566	180 - 1430	Not Reported				508	208	
2525	E.coli (MPN)	MPN/100mL	1050	780	513 - 2160	Acceptable	SM 9223 B (Collett-18 Quant-Tray)-2004 2004	2/6/2020	-0.000584	1050	275	Alysa Castillo

per Section 6.4.3 a of the 2009 TNI Standard, "The assigned values for quantitative microbiology analytes shall be equal to the mean of the assigned value verification and/or homogeneity testing per Sections 7.1 and 7.2". The final acceptance limits are derived from the calculated study mean and study standard deviation from laboratory-reported results. Disagreement between the assigned values and study means/acceptance limits are due to the inherent variability microbiology methods and differences in the methods used by ERA and participant laboratories. For quantitative microbiology analytes, the assigned value is not used in the evaluation of laboratories.

VP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P300-083)

2500	Total Coliforms (MF)	CFU/100mL		833	392 - 1050	Not Reported				641	109	
2530	Fecal Coliforms (MF)	CFU/100mL		548	93.0 - 1040	Not Reported				312	159	
2525	E.coli (MF)	CFU/100mL		533	104 - 1700	Not Reported				421	266	
2500	Total Coliforms (MPN)	MPN/100mL	1410	780	489 - 2170	Acceptable	SM 9223 B (Collett Quant-Tray)-2004 2004	2/6/2020	0.0557	1030	280	Alysa Castillo
2530	Fecal Coliforms (MPN)	MPN/100ml		566	180 - 1430	Not Reported				508	208	
2525	E.coli (MPN)	MPN/100mL	1410	780	513 - 2160	Acceptable	SM 9223 B (Collett Quant-Tray)-2004 2004	2/6/2020	0.0519	1050	275	Alysa Castillo

per Section 6.4.3 a of the 2009 TNI Standard, "The assigned values for quantitative microbiology analytes shall be equal to the mean of the assigned value verification and/or homogeneity testing per Sections 7.1 and 7.2". The final acceptance limits are derived from the calculated study mean and study standard deviation from laboratory-reported results. Disagreement between the assigned values and study means/acceptance limits are due to the inherent variability microbiology methods and differences in the methods used by ERA and participant laboratories. For quantitative microbiology analytes, the assigned value is not used in the evaluation of laboratories.

VP WasteWatR™ Coliform MicrobE™ - SM 9221 (cat# 576A, lot# P300-083A)

2500	Total Coliforms (MPN)	MPN/100mL	500	479	69.4 - 2790	Acceptable	SM 9221 B * E * C-2008 2008	2/4/2020	0.0208	440	454	Alysa Castillo
2530	Fecal Coliforms (MPN)	MPN/100mL	500	479	62.4 - 2920	Acceptable	SM 9221 B * E * C-2008 2008	2/4/2020	0.0256	427	477	Alysa Castillo
2525	E.coli (MPN)	MPN/100mL		479	18.0 - 6110	Not Reported				337	1010	



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.



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Study #: WP-300



A Waters Company

WP-300 Final Evaluation Report

Josh Kirkpatrick
Quality Assurance Manager
Basic Laboratory, Inc.
2218 Railroad Ave
Redding, CA 96001
(530) 243-7234-204

EPA ID: CA00381
ERA Customer Number: B062101
Report Issued: 03/02/20
Study Dates: 01/13/20 - 02/27/20

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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Section 6.4.3 a of the 2009 TNI Standard, "The assigned values for quantitative microbiology analytes shall be equal to the mean of the assigned value verification and/or homogeneity testing per Sections 7.1 and 7.2". The final acceptance limits are derived from the calculated study mean and study standard deviation from laboratory-reported results. Disagreement between the assigned values and study means/acceptance limits are due to the inherent variability microbiology methods and differences in the methods used by ERA and participant laboratories. For quantitative microbiology analytes, the assigned value is not used in the evaluation of laboratories.



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.



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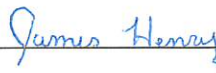
Study #: WP-300

WET Analyte Checklist DMR-QA Study 40

Analyte Number	Organism / Conditions	Endpoint	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab*
				Acceptable	Not Acceptable (Corrective Action Required)	
Test Code 13 (refer to EPA Method 2000.0)						
754	Fathead minnow (<i>Pimephales promelas</i>) - MHSF 25°C	LC50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 14 (refer to EPA Method 2000.0)						
755	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 15 (refer to EPA Method 1000.0)						
756	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC SURVIVAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
808	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
810	Fathead minnow (<i>Pimephales promelas</i>) - MHSF	NOEC (ON) GROWTH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 16 (refer to EPA Method 1000.0)						
759	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
812	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
814	Fathead minnow (<i>Pimephales promelas</i>) - 20% DMW	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 19 (refer to EPA Method 2002.0)						
764	<i>Ceriodaphnia dubia</i> - MHSF 25°C	LC50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 20 (refer to EPA Method 2002.0)						
765	<i>Ceriodaphnia dubia</i> - 20% DMW 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 21 (refer to EPA Method 1002.0)						
766	<i>Ceriodaphnia dubia</i> - MHSF	NOEC SURVIVAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
767	<i>Ceriodaphnia dubia</i> - MHSF	IC25** REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
768	<i>Ceriodaphnia dubia</i> - MHSF	NOEC REPRODUCTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 22 (refer to EPA Method 1002.0)						
769	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
770	<i>Ceriodaphnia dubia</i> - 20% DMW	IC25** REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
771	<i>Ceriodaphnia dubia</i> - 20% DMW	NOEC REPRODUCTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 32 (refer to EPA Method 2021.0)						
788	<i>Daphnia magna</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 38 (refer to EPA Method 2021.0)						
794	<i>Daphnia pulex</i> - MHSF 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 42 (refer to EPA Method 2007.0)						
798	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 43 (refer to EPA Method 1007.0)						
799	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
816	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
818	Mysid (<i>Americamysis bahia</i> , <i>Mysidopsis bahia</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 44 (refer to EPA Method 2006.0)						
803	Inland silverside (<i>Menidia berylina</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 45 (refer to EPA Method 1006.0)						
824	Inland silverside (<i>Menidia berylina</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
825	Inland silverside (<i>Menidia berylina</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
826	Inland silverside (<i>Menidia berylina</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 46 (refer to EPA Method 2004.0)						
804	Sheepshead minnow (<i>Cyprinodon variegatus</i>) 25°C	LC50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Code 47 (refer to EPA Method 1004.0)						
805	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC SURVIVAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
820	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	IC25** (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
822	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	NOEC (ON) GROWTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name James Henry

Signature



Date 11/12/2020

*See Footnote on page 2.

**Preferred endpoint for DMR-QA performance test reporting.



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October 16, 2020

Ms. Bella Volpatti
Pacific EcoRisk
2250 Cordelia Road
Fairfield, CA 94534
USA

Dear Bella,

Thank you for participating in the DMRQA40-WET DMRQA PT Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you. A final report for your laboratory will be sent to all accrediting agencies you requested at the time of data submittal.

Thank you again for participating in the DMRQA40-WET DMRQA PT Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 303-940-0033.

Report Definitions:

Assigned Value

The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation Limits

Acceptance Limits are derived from fixed limits, coefficients, constants and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC PT FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation

Acceptable

The reported value falls within the Acceptance Limits.

Not Acceptable

The reported value falls outside the Acceptance Limits.

No Evaluation

The reported value is non-numeric and can not be evaluated.

NR

As required by the NELAC standards and requested by state authorities, any analyte purchased but not reported by your facility is listed as NR (Not Reported).

This report must not be reproduced except in full, without the written approval of Phenova.

This report must not be used to claim product certification, approval, or endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the federal government.

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Final Report - DMRQA PT
Study: DMRQA40-WET

Opening Date: March 20, 2020 - Closing Date: September 18, 2020

Facility: Pacific EcoRisk
2250 Cordelia Road
Fairfield, CA 94534
USA

Contact: Ms. Bella Volpatti, Quality Assurance Manager
707-207-7767

EPA Lab ID: CA01307
NPDES Permit ID:

Fathead Minnow Method 13 (PT-13-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3410	Fathead Minnow Acute MHSF 25° - LC50	10213602	EPA 2000.0 - Fathead minnow, 48-hr Acute, nonrenewal, MHSF 25deg C Rev.5th Ed 2002	S.U.	38.0	42.0	25.7 - 50.4	Acceptable

Fathead Minnow Method 15 (PT-15-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3410	Fathead Minnow Chronic MHSF - Survival NOEC	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25deg C 2002	S.U.	50	50	25 - 100	Acceptable
3410	Fathead Minnow Chronic MHSF - Growth IC25 (ON)	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25deg C 2002	S.U.	46.1	45.4	25.5 - 66.8	Acceptable
3410	Fathead Minnow Chronic MHSF - Growth NOEC (ON)	10214207	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25deg C 2002	S.U.	25	25	12.5 - 50	Acceptable



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Ceriodaphnia Method 19 (PT-19-WET)						Lot #: 8548-19		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3315	Ceriodaphnia Acute MHSF 25° - LC50	10213646	EPA 2002.0 - Ceriodaphnia dubia, 48-hr Acute, nonrenewal, MHSF, 25°C (FoPT) Rev.5th Ed 2002	S.U.	39.9	36.6	17.3 - 62.4	Acceptable
Ceriodaphnia Method 21 (PT-21-WET)						Lot #: 8548-21		
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3315	Ceriodaphnia Chronic MHSF - Survival NOEC	10253040	EPA 1002.0 - Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable
3315	Ceriodaphnia Chronic MHSF - Reproduction IC25	10253040	EPA 1002.0 - Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF, 25°C (FoPT) 2002	S.U.	26.5	28.5	15.1 - 37.9	Acceptable
3315	Ceriodaphnia Chronic MHSF - Reproduction NOEC	10253040	EPA 1002.0 - Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable



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Daphnia Method 32 (PT-32-WET)							Lot #: 8548-32	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3350	Daphnia Magna Acute MHSF 25° - LC50	10215415	EPA 2021.0 - Daphnia magna, 48-hr Acute, nonrenewal, MHSF 25deg C Rev.5th Ed 2002	S.U.	58.0	36.0	32.6 - 83.3	Acceptable
Daphnia Method 38 (PT-38-WET)							Lot #: 8548-38	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3355	Daphnia Pulex Acute MHSF 25° - LC50	10215619	EPA 2021.0 - Daphnia pulex, 48-hr Acute, nonrenewal, MHSF 25deg C Rev.5th Ed 2002	S.U.	60.4	54.8	43.8 - 76.9	Acceptable
Mysid Method 42 (PT-42-WET)							Lot #: 8548-42	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3395	Mysid Acute SSW 25° - LC50	10216010	EPA 2007.0- Mysid, 48-hr Acute, nonrenewal, 40-fathoms SW, 20 deg C, Rev. 5th, Ed. 2002	S.U.	37.6	35.4	<6.25 - 70.2	Acceptable
3395	Mysid Acute SSW 25° - LC50	10216021	EPA 2007.0 - Mysid, 48-hr Acute, nonrenewal, SSW, 25°C (FoPT) Rev.5th Ed 2002	S.U.	37.6	35.4	<6.25 - 70.2	Acceptable



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EPA Lab ID: CA01307
NPDES Permit ID:

Mysid Method 43 (PT-43-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3395	Mysid Chronic SSW - Survival NOEC	10254021	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable
3395	Mysid Chronic SSW - Growth IC25 (ON)	10254021	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	29.6	33.1	25.6 - 33.6	Acceptable
3395	Mysid Chronic SSW - Growth NOEC (ON)	10254021	EPA 1007.0 - Mysid, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable

Menidia Method 44 (PT-44-WET)

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3380	Menidia Acute SSW 25° - LC50	10216429	EPA 2006.0 - Inland Silverside, 48-hr Acute, nonrenewal, SSW, 25°C (FoPT) Rev.5th Ed 2002	S.U.	42.2	50.2	28.8 - 55.6	Acceptable

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NPDES Permit ID:

Menidia Method 45 (PT-45-WET)

Lot #: 8548-45

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3380	Menidia Chronic SSW - Survival NOEC	10253824	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable
3380	Menidia Chronic SSW - Growth IC25 (ON)	10253824	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	30.1	31.6	27.2 - 32.9	Acceptable
3380	Menidia Chronic SSW - Growth NOEC (ON)	10253824	EPA 1006.0 - Inland silverside, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable

Sheepshead Minnow Method 46 (PT-46-WET)

Lot #: 8548-46

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3345	Sheepshead Minnow Acute SSW 25° - LC50	10216645	EPA 2004.0 - Sheepshead Minnow, 48-hr Acute, nonrenewal, SSW, 25°C (FoPT) Rev.5th Ed 2002	S.U.	25.6	20.3	7.96 - 43.3	Acceptable

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Final Report - DMRQA PT

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Contact: Ms. Bella Volpatti, Quality Assurance Manager
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EPA Lab ID: CA01307
NPDES Permit ID:

Sheepshead Minnow Method 47 (PT-47-WET)

Lot #: 8548-47

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
3345	Sheepshead Minnow Chronic SSW - Survival NOEC	10216827	EPA 1004.0 - Sheepshead Minnow, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	25	12.5 - 50	Acceptable
3345	Sheepshead Minnow Chronic SSW - Growth IC25 (ON)	10216827	EPA 1004.0 - Sheepshead Minnow, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	31.3	30.0	29.2 - 33.5	Acceptable
3345	Sheepshead Minnow Chronic SSW - Growth NOEC (ON)	10216827	EPA 1004.0 - Sheepshead Minnow, 7-day Chronic, daily renewal, SSW, 25°C (FoPT) 2002	S.U.	25	12.5	12.5 - 50	Acceptable