



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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**WP 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 300.0 2.1 1993	1/28/2020	-0.0534	74.7	2.41	Rebecca Goerner
1610	Conductivity at 25°C	µmhos/cm	456	458	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 300.0 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 300.0 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 - 351	Acceptable	SM 2540 B-2011 2011	1/30/2020	0.0430	304	17.4	Jon Cartee

**WP 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		458	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 200.8 5.4 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 200.8 5.4 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 - 351	Not Reported				304	17.4	



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**WP Hardness (cat# 580, lot# P300-507)**

1960	Total Suspended Solids	mg/L	67.2	71.3	57.6 - 79.9	Acceptable	SM 2540 D-2011 2011	1/28/2020	0.178	66.6	3.64	Merle 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

**WP 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	1.96	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	

**WP 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 2340 B-2011 2011	1/30/2020	0.722	240	9.46	Brittany Light



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**WP 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	208 - 282	Acceptable	SM 2340 C-2011 2011	1/24/2020	-0.652	240	9.46	Jared Bradley

**WP pH (cat# 577, lot# P300-977)**

1900	pH	S.U.	6.72	6.70	6.50 - 6.90	Acceptable	SM 4500-H+ B-2011 2011	1/28/2020	0.353	6.71	0.0401	Jon Cartee
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**WP 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 Cartee
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**WP 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 Cartee
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**WP 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 Cartee
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 Cartee
1810	Nitrate as N	mg/L	5.73	5.65	4.59 - 6.69	Acceptable	EPA 353.2 (calc)	1/27/2020	0.467	5.59	0.292	Jon Cartee
1870	ortho-Phosphate as P	mg/L	3.04	3.11	2.64 - 3.58	Acceptable	SM 4500-P E-2011 2011	1/27/2020	-0.626	3.15	0.176	Jon Cartee



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**WP 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 Cartee
1810	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 Cartee
1870	ortho-Phosphate as P	mg/L		3.11	2.64 - 3.58	Not Reported				3.15	0.176	

**WP 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 Cartee
1910	Total phosphorus as P	mg/L	7.88	8.24	6.87 - 9.52	Acceptable	SM 4500-P E-2011 2011	1/27/2020	-0.758	8.18	0.393	Jon Cartee

**WP Nitrite (cat# 888, lot# P300-770)**

1840	Nitrite as N	mg/L	2.30	2.30	1.97 - 2.64	Acceptable	EPA 353.2 2 1993	1/27/2020	-0.102	2.31	0.120	Jon Cartee
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**WP Nitrite (cat# 888, lot# P300-770)**

1840	Nitrite as N	mg/L	2.28	2.30	1.97 - 2.64	Acceptable	EPA 300.0 2.1 1993	1/28/2020	-0.270	2.31	0.120	Jon Cartee
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**WP 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 Cartee
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**WP 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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**WP 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	

**WP 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	

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

1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	106	110	78.8 - 127	Acceptable	EPA 1664B (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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**WP 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 - 966	Acceptable	EPA 200.7 4.4 1994	2/3/2020	-0.970	845	31.5	Brittany Light
1020	Beryllium	µg/L	301	313	266 - 360	Acceptable	EPA 200.7 4.4 1994	2/3/2020	-0.652	310	14.2	Brittany Light
1025	Boron	µg/L	840	936	796 - 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	-0.863	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
1165	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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**WP Trace Metals (cat# 586, lot# P300-500) (Continued)**

1190	Zinc	µg/L	1510	1600	1360 - 1840	Acceptable	EPA 200.7 4.4 1994	2/3/2020	-1.28	1610	74.4	Brittany Light
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**WP Trace Metals (cat# 586, lot# P300-500)**

1000	Aluminum	µg/L	1900	1880	1560 - 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	14.2	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	851	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	252 - 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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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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**WP 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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**WP Trace Metals (cat# 586, lot# P300-500)**

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 - 966	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 - 1910	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	578	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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**WP Trace Metals (cat# 586, lot# P300-500) (Continued)**

1190	Zinc	µg/L	1540	1600	1360 - 1840	Acceptable	EPA 200.8 5.4 1994	2/7/2020	-0.875	1610	74.4	Eric Mathews
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**WP Trace Metals (cat# 586, lot# P300-500)**

1000	Aluminum	µg/L	1940	1880	1560 - 2160	Acceptable	EPA 6020	2/7/2020	0.156	1920	109	Eric Mathews
1005	Antimony	µg/L	258	257	198 - 307	Acceptable	EPA 6020	2/7/2020	0.348	253	15.5	Eric Mathews
1010	Arsenic	µg/L	787	772	654 - 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
1050	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
1105	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	-0.982	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	245 - 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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**WP 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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# WP-300 Final Evaluation Report

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**WP Trace Metals (cat# 586, lot# P300-500)**

1000	Aluminum	µg/L	1900	1880	1560 - 2160	Acceptable	EPA 1638 1996	2/14/2020	-0.212	1920	109	Eric Mathews
1005	Antimony	µg/L	247	257	198 - 307	Acceptable	EPA 1638 1996	2/14/2020	-0.360	253	15.5	Eric Mathews
1010	Arsenic	µg/L	731	772	654 - 880	Acceptable	EPA 1638 1996	2/14/2020	-0.430	744	30.3	Eric Mathews
1015	Barium	µg/L	842	840	714 - 966	Acceptable	EPA 1638 1996	2/14/2020	-0.0799	845	31.5	Eric Mathews
1020	Beryllium	µg/L	306	313	266 - 360	Acceptable	EPA 1638 1996	2/14/2020	-0.300	310	14.2	Eric Mathews
1025	Boron	µg/L	912	936	796 - 1080	Acceptable	EPA 1638 1996	2/14/2020	-0.498	938	53.1	Eric Mathews
1030	Cadmium	µg/L	832	851	723 - 979	Acceptable	EPA 1638 1996	2/14/2020	-0.340	843	33.1	Eric Mathews
1040	Chromium	µg/L	533	533	453 - 613	Acceptable	EPA 1638 1996	2/14/2020	-0.205	537	20.9	Eric Mathews
1050	Cobalt	µg/L	110	110	93.5 - 126	Acceptable	EPA 1638 1996	2/14/2020	-0.838	115	5.46	Eric Mathews
1055	Copper	µg/L	289	296	252 - 340	Acceptable	EPA 1638 1996	2/14/2020	-0.577	297	14.0	Eric Mathews
1070	Iron	µg/L	3240	3350	2850 - 3850	Acceptable	EPA 1638 1996	2/14/2020	-0.922	3370	140	Eric Mathews
1075	Lead	µg/L	644	648	551 - 745	Acceptable	EPA 1638 1996	2/14/2020	-0.319	654	29.8	Eric Mathews
1090	Manganese	µg/L	1500	1500	1280 - 1720	Acceptable	EPA 1638 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 1638 1996	2/14/2020	-0.480	79.2	3.94	Eric Mathews
1105	Nickel	µg/L	1660	1710	1510 - 1910	Acceptable	EPA 1638 1996	2/14/2020	-1.02	1740	75.5	Eric Mathews
1140	Selenium	µg/L	485	510	434 - 586	Acceptable	EPA 1638 1996	2/14/2020	-0.940	508	24.0	Eric Mathews
1150	Silver	µg/L	577	578	491 - 665	Acceptable	EPA 1638 1996	2/14/2020	-0.168	583	34.5	Eric Mathews
1160	Strontium	µg/L	278	288	245 - 331	Acceptable	EPA 1638 1996	2/14/2020	-1.15	291	11.3	Eric Mathews
1165	Thallium	µg/L	660	662	549 - 764	Acceptable	EPA 1638 1996	2/14/2020	-0.133	665	33.9	Eric Mathews
1185	Vanadium	µg/L	583	598	508 - 688	Acceptable	EPA 1638 1996	2/14/2020	-0.394	592	23.0	Eric Mathews



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

1190	Zinc	µg/L	1570	1600	1360 - 1840	Acceptable	EPA 1638 1996	2/14/2020	-0.472	1610	74.4	Eric Mathews
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**WP 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	15.5	
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 1994	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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**WP Trace Metals (cat# 586, lot# P300-500) (Continued)**

1190	Zinc	µg/L		1600	1360 - 1840	Not Reported				1610	74.4	
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**WP Mercury (cat# 574, lot# P300-514)**

1095	Mercury	µg/L	5.28	5.29	3.70 - 6.88	Acceptable	EPA 245.1 3 1994	1/28/2020	0.310	5.11	0.562	Alysa Castillo
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**WP Mercury (cat# 574, lot# P300-514)**

1095	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
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**WP 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
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**WP Hexavalent Chromium (cat# 898, lot# P300-984)**

1045	Hexavalent Chromium	µg/L	880	852	718 - 974	Acceptable	EPA 218.6 3.3 1994	1/24/2020	0.994	842	37.8	Erich Bowman
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**WP 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
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**WP 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	37.8	Jon Cartee
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**WP Turbidity (cat# 893, lot# P300-777)**

2055	Turbidity	NTU	4.2	4.05	2.98 - 5.08	Acceptable	SM 2130 B-2011 2011	1/23/2020	0.805	3.99	0.264	Jared Bradley
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**WP 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
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**WP Total Cyanide (cat# 588, lot# P300-502)**

1645	Cyanide, total	mg/L	0.507	0.492	0.320 - 0.664	Acceptable	SM 4500-CN E-2011 2011	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	



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.





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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**WP 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	

**WP 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	

**WP 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	0.615	1.04	0.171	Jon Cartee
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**WP 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	0.0595	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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**WP 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		833	104 - 1700	Not Reported				421	266	
2500	Total Coliforms (MPN)	MPN/100mL	1050	780	489 - 2170	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	2/6/2020	0.00338	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 (Colilert-18 Quanti-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 of 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.

**WP 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		833	104 - 1700	Not Reported				421	266	
2500	Total Coliforms (MPN)	MPN/100mL	1410	780	489 - 2170	Acceptable	SM 9223 B (Colilert Quanti-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 (Colilert Quanti-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 of 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.

**WP 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 + C-2006 2006	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-2006 2006	2/4/2020	0.0256	427	477	Alysa Castillo
2525	E.coli (MPN)	MPN/100mL		479	18.6 - 6110	Not Reported				337	1010	



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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 of 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.



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