



A Waters Company

**Pam M. Varner
Analytical Services Inc
110 Technology Pkwy
Norcross, GA 30092**

WP-191



Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 12/13/10

Close Date: 01/27/11

Report Issued Date: 02/17/11



A Waters Company

February 17, 2011

Pam M. Varner
Analytical Services Inc
110 Technology Pkwy
Norcross, GA 30092

Enclosed is your final report for ERA's WP-191 WatR™ Pollution Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's WP-191 WatR™ Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the most current National Environmental Laboratory Accreditation Conference (NELAC) PT Field of Testing tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the NELAC FoPT tables. If the analyte is not included in the NELAC FoPT tables, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (QuiK™ Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have well over three hundred years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be helpful in helping you work through your technical issues.

Thank you for your participation in ERA's WP-191 WatR™ Pollution Proficiency Testing study. If you have any questions, please contact the proficiency testing department, or myself, at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink that reads "Jay R. McBurney". The signature is written in a cursive, flowing style.

Jay R. McBurney
Quality Program Manager

attachments
jrm



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type
Florida	Steve Arms / 904-791-1502	All Analytes
Louisiana	Paul Bergeron / 225-219-1244	All Analytes
North Carolina (WP)	Dana Satterwhite / 919-733-3908 x 243	All Analytes
Texas	Frank Jamison / (512) 239-3754	All Analytes

WP-191 Definitions & Study Discussion

Study Dates: 12/13/10 - 01/27/11

Report Issued: 02/17/11

WP Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the most current USEPA/NELAC FoPT tables. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards. A parameter not added to the standard is given an Assigned Value of "0" per the guidelines contained in the USEPA's Criteria Document and NELAC standards.

The Acceptance Limits are established per the criteria contained in the most current USEPA/NELAC FoPT tables, or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

- | | |
|----------------|---|
| Acceptable | = Reported Value falls within the Acceptance Limits. |
| Not Acceptable | = Reported Value falls outside the Acceptance Limits. |
| No Evaluation | = Reported Value cannot be evaluated. |
| Not Reported | = No Value reported. |

The Method Description is the method the laboratory reported to ERA.

WP Study Discussion

ERA's WP-191 WatR™Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the USEPA's National Standards for Water Proficiency Testing Studies Criteria Document (December 1998), and the criteria contained in the most current NELAC FoPT tables.

ERA's WP-191 WatR™Pollution study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes met the acceptance criteria contained in the USEPA's National Criteria Document for Water Proficiency Testing Studies, December 1998, and the criteria contained in the most current NELAC FoPT tables.

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's WP-191 WatR™Pollution study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's WatR™Pollution Proficiency Testing program, please contact Jay McBurney, Quality Program Manager, or the proficiency testing department at 1-800-372-0122.



Study: **WP-191**

ERA Customer Number: **A520001**

Laboratory Name: **Analytical Services Inc**

Inorganic Results



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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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WP Minerals (cat# 581)

0027	Alkalinity as CaCO ₃	mg/L	115	105	93.3 - 116	Acceptable	SM2320B
0028	Chloride	mg/L	43.1	43.1	36.4 - 50.4	Acceptable	EPA 300.0
0020	Conductivity at 25°C	µmhos/cm	444	427	383 - 471	Acceptable	SM2510B
0029	Fluoride	mg/L	1.58	1.54	1.22 - 1.86	Acceptable	EPA 300.0
0026	Potassium	mg/L	33.2	32.9	27.2 - 39.1	Acceptable	EPA 200.7/6010C
0025	Sodium	mg/L	72.5	73.9	62.7 - 84.7	Acceptable	EPA 200.7/6010C
0030	Sulfate	mg/L	36.3	36.5	29.5 - 42.6	Acceptable	EPA 300.0
0021	Total Dissolved Solids at 180°C	mg/L	342	353	267 - 439	Acceptable	SM2540C
1950	Total Solids at 105°C	mg/L	379	377	333 - 415	Acceptable	SM2540B

WP Minerals (cat# 581)

0027	Alkalinity as CaCO ₃	mg/L	110	105	93.3 - 116	Acceptable	EPA 310.2
0028	Chloride	mg/L	43.1	43.1	36.4 - 50.4	Acceptable	EPA 9056A
0020	Conductivity at 25°C	µmhos/cm	444	427	383 - 471	Acceptable	EPA 9050A
0029	Fluoride	mg/L	1.58	1.54	1.22 - 1.86	Acceptable	EPA 9056A
0026	Potassium	mg/L	33.4	32.9	27.2 - 39.1	Acceptable	EPA 6020A
0025	Sodium	mg/L	78.5	73.9	62.7 - 84.7	Acceptable	EPA 6020A
0030	Sulfate	mg/L	36.3	36.5	29.5 - 42.6	Acceptable	EPA 9056A
0021	Total Dissolved Solids at 180°C	mg/L		353	267 - 439	Not Reported	
1950	Total Solids at 105°C	mg/L		377	333 - 415	Not Reported	

WP Hardness (cat# 580)

0072	Non-Filterable Residue (TSS)	mg/L	54.0	59.8	47.4 - 67.6	Acceptable	SM2540D
0023	Calcium	mg/L	43.9	41.9	37.3 - 47.6	Acceptable	EPA 200.7/6010C
0024	Magnesium	mg/L	6.14	6.44	5.44 - 7.36	Acceptable	EPA 200.7/6010C
1550	Calcium Hardness as CaCO ₃	mg/L	110	105	93.6 - 119	Acceptable	EPA 200.7
0022	Total Hardness as CaCO ₃	mg/L	135	131	116 - 149	Acceptable	EPA 200.7

WP Hardness (cat# 580)

0072	Non-Filterable Residue (TSS)	mg/L		59.8	47.4 - 67.6	Not Reported	
0023	Calcium	mg/L	39.0	41.9	37.3 - 47.6	Acceptable	EPA 6020A
0024	Magnesium	mg/L	6.29	6.44	5.44 - 7.36	Acceptable	EPA 6020A
1550	Calcium Hardness as CaCO ₃	mg/L	97.4	105	93.6 - 119	Acceptable	SM2340B
0022	Total Hardness as CaCO ₃	mg/L	123	131	116 - 149	Acceptable	SM2340B

WP pH (cat# 577)

0019	pH	S.U.	8.52	8.60	8.40 - 8.80	Acceptable	SM4500H+ B
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WP pH (cat# 577)

0019	pH	S.U.	8.53	8.60	8.40 - 8.80	Acceptable	EPA 9040C
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WP Settleable Solids (cat# 883)

1965	Settleable Solids	mL/L	21	20.1	15.4 - 26.0	Acceptable	SM2540F
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WP Simple Nutrients (cat# 584)

0031	Ammonia as N	mg/L	7.41	6.98	5.12 - 8.81	Acceptable	EPA 350.1
1820	Nitrate + Nitrite as N	mg/L	34.6	33.7	27.5 - 39.1	Acceptable	EPA 353.2
0032	Nitrate as N	mg/L	34.6	33.7	26.3 - 40.6	Acceptable	EPA 353.2
0033	ortho-Phosphate as P	mg/L	2.56	2.46	2.00 - 2.95	Acceptable	SM4500P E

WP Simple Nutrients (cat# 584)

0031	Ammonia as N	mg/L	7.71	6.98	5.12 - 8.81	Acceptable	SM4500NH3 D
1820	Nitrate + Nitrite as N	mg/L	34.0	33.7	27.5 - 39.1	Acceptable	EPA 300.0
0032	Nitrate as N	mg/L	34.0	33.7	26.3 - 40.6	Acceptable	EPA 300.0
0033	ortho-Phosphate as P	mg/L		2.46	2.00 - 2.95	Not Reported	

WP Simple Nutrients (cat# 584)

0031	Ammonia as N	mg/L		6.98	5.12 - 8.81	Not Reported	
1820	Nitrate + Nitrite as N	mg/L	34.0	33.7	27.5 - 39.1	Acceptable	EPA 9056A
0032	Nitrate as N	mg/L	34.0	33.7	26.3 - 40.6	Acceptable	EPA 9056A
0033	ortho-Phosphate as P	mg/L		2.46	2.00 - 2.95	Not Reported	

WP Complex Nutrients (cat# 579)

0034	Total Kjeldahl Nitrogen	mg/L	9.11	8.63	5.76 - 11.2	Acceptable	EPA 351.2
0035	Total phosphorus as P	mg/L	3.60	3.73	3.04 - 4.47	Acceptable	SM4500P E

WP Complex Nutrients (cat# 579)

0034	Total Kjeldahl Nitrogen	mg/L	10.3	8.63	5.76 - 11.2	Acceptable	SM4500NH3 D
0035	Total phosphorus as P	mg/L	3.67	3.73	3.04 - 4.47	Acceptable	EPA 200.7/6010C

WP Nitrite (cat# 888)

1840	Nitrite as N	mg/L	2.17	2.08	1.74 - 2.41	Acceptable	EPA 353.2
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WP Nitrite (cat# 888)

1840	Nitrite as N	mg/L	2.05	2.08	1.74 - 2.41	Acceptable	EPA 300.0
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WP Nitrite (cat# 888)

1840	Nitrite as N	mg/L	2.05	2.08	1.74 - 2.41	Acceptable	EPA 9056A
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WP Demand (cat# 578)

0038	BOD	mg/L	51.3	47.0	23.5 - 70.4	Acceptable	SM5210B
0102	CBOD	mg/L	43.6	40.5	18.1 - 62.8	Acceptable	SM5210B
0036	COD	mg/L	77	75.8	54.6 - 90.7	Acceptable	EPA 410.4
0037	TOC	mg/L	30.8	29.9	24.9 - 34.7	Acceptable	SM5310B

WP Demand (cat# 578)

0038	BOD	mg/L		47.0	23.5 - 70.4	Not Reported	
0102	CBOD	mg/L		40.5	18.1 - 62.8	Not Reported	
0036	COD	mg/L	77	75.8	54.6 - 90.7	Acceptable	SM5220D
0037	TOC	mg/L	30.8	29.9	24.9 - 34.7	Acceptable	EPA 9060A

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WP Oil & Grease (cat# 582)

0104	Oil & Grease (Gravimetric)	mg/L	40.9	44.0	27.5 - 54.4	Acceptable	EPA 1664A
1860	Oil & Grease (Infrared)	mg/L		54.1	35.4 - 65.5	Not Reported	

WP Trace Metals (cat# 586)

0001	Aluminum	µg/L	556	589	461 - 716	Acceptable	EPA 200.7/6010C
0016	Antimony	µg/L	216	236	158 - 288	Acceptable	EPA 200.7/6010C
0002	Arsenic	µg/L	641	707	594 - 827	Acceptable	EPA 200.7/6010C
1015	Barium	µg/L	972	1070	929 - 1210	Acceptable	EPA 200.7/6010C
0003	Beryllium	µg/L	195	213	180 - 241	Acceptable	EPA 200.7/6010C
1025	Boron	µg/L	1340	1510	1230 - 1760	Acceptable	EPA 200.7/6010C
0004	Cadmium	µg/L	134	150	127 - 171	Acceptable	EPA 200.7/6010C
0006	Chromium	µg/L	426	469	408 - 531	Acceptable	EPA 200.7/6010C
0005	Cobalt	µg/L	698	761	669 - 852	Acceptable	EPA 200.7/6010C
0007	Copper	µg/L	511	568	511 - 625	Acceptable	EPA 200.7/6010C
0008	Iron	µg/L	449	484	425 - 550	Acceptable	EPA 200.7/6010C
0012	Lead	µg/L	846	923	809 - 1030	Acceptable	EPA 200.7/6010C
0010	Manganese	µg/L	903	931	836 - 1030	Acceptable	EPA 200.7/6010C
0074	Molybdenum	µg/L	390	411	348 - 470	Acceptable	EPA 200.7/6010C
0011	Nickel	µg/L	535	591	532 - 662	Acceptable	EPA 200.7/6010C
0013	Selenium	µg/L	455	479	378 - 555	Acceptable	EPA 200.7/6010C
0017	Silver	µg/L	92.0	102	87.0 - 117	Acceptable	EPA 200.7/6010C
0075	Strontium	µg/L	88.3	97.0	82.2 - 112	Acceptable	EPA 200.7/6010C
0018	Thallium	µg/L	159	176	122 - 226	Acceptable	EPA 200.7/6010C
0014	Vanadium	µg/L	793	859	753 - 960	Acceptable	EPA 200.7/6010C
0015	Zinc	µg/L	630	653	560 - 752	Acceptable	EPA 200.7/6010C

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WP Trace Metals (cat# 586)

0001	Aluminum	µg/L	594	589	461 - 716	Acceptable	ERA 200.8/6020A
0016	Antimony	µg/L	228	236	158 - 288	Acceptable	ERA 200.8/6020A
0002	Arsenic	µg/L	683	707	594 - 827	Acceptable	ERA 200.8/6020A
1015	Barium	µg/L	1010	1070	929 - 1210	Acceptable	ERA 200.8/6020A
0003	Beryllium	µg/L	208	213	180 - 241	Acceptable	ERA 200.8/6020A
1025	Boron	µg/L	1570	1510	1230 - 1760	Acceptable	ERA 200.8/6020A
0004	Cadmium	µg/L	146	150	127 - 171	Acceptable	ERA 200.8/6020A
0006	Chromium	µg/L	445	469	408 - 531	Acceptable	ERA 200.8/6020A
0005	Cobalt	µg/L	695	761	669 - 852	Acceptable	ERA 200.8/6020A
0007	Copper	µg/L	554	568	511 - 625	Acceptable	ERA 200.8/6020A
0008	Iron	µg/L	458	484	425 - 550	Acceptable	ERA 200.8/6020A
0012	Lead	µg/L	844	923	809 - 1030	Acceptable	ERA 200.8/6020A
0010	Manganese	µg/L	1000	931	836 - 1030	Acceptable	ERA 200.8/6020A
0074	Molybdenum	µg/L	392	411	348 - 470	Acceptable	ERA 200.8/6020A
0011	Nickel	µg/L	568	591	532 - 662	Acceptable	ERA 200.8/6020A
0013	Selenium	µg/L	482	479	378 - 555	Acceptable	ERA 200.8/6020A
0017	Silver	µg/L	100	102	87.0 - 117	Acceptable	ERA 200.8/6020A
0075	Strontium	µg/L	93.6	97.0	82.2 - 112	Acceptable	ERA 200.8/6020A
0018	Thallium	µg/L	161	176	122 - 226	Acceptable	ERA 200.8/6020A
0014	Vanadium	µg/L	737	859	753 - 960	Not Acceptable	ERA 200.8/6020A
0015	Zinc	µg/L	656	653	560 - 752	Acceptable	ERA 200.8/6020A

WP Mercury (cat# 574)

0009	Mercury	µg/L	4.26	4.42	2.73 - 6.10	Acceptable	EPA 245.1
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WP Mercury (cat# 574)

0009	Mercury	µg/L	4.26	4.42	2.73 - 6.10	Acceptable	EPA 7470A
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WP Hexavalent Chromium (cat# 898)

1045	Hexavalent Chromium	µg/L	692	647	528 - 760	Acceptable	SM3500Cr B
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WP Hexavalent Chromium (cat# 898)

1045	Hexavalent Chromium	µg/L	688	647	528 - 760	Acceptable	EPA 7196A
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WP Tin & Titanium (cat# 573)

1175	Tin	µg/L	3300	3460	2720 - 4220	Acceptable	EPA 200.7/6010C
0076	Titanium	µg/L	246	254	218 - 286	Acceptable	EPA 200.7/6010C

WP Tin & Titanium (cat# 573)

1175	Tin	µg/L	3150	3460	2720 - 4220	Acceptable	EPA 6020A
0076	Titanium	µg/L	255	254	218 - 286	Acceptable	EPA 6020A

WP Turbidity (cat# 893)

2055	Turbidity	NTU	4.48	4.00	3.24 - 4.73	Acceptable	EPA 180.1
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Total Cyanide (cat# 588)							
0071	Cyanide, total	mg/L	1.03	0.897	0.578 - 1.21	Acceptable	SM4500CN E
WP Total Phenolics (4-AAP) (cat# 589)							
0097	Phenolics, total	mg/L	0.90	0.781	0.427 - 1.14	Acceptable	EPA 420.1
WP Total Phenolics (4-AAP) (cat# 589)							
0097	Phenolics, total	mg/L	0.90	0.781	0.427 - 1.14	Acceptable	EPA 9065
WP Total Residual Chlorine (cat# 587)							
0098	Total Residual Chlorine	mg/L	0.8	0.720	0.522 - 0.904	Acceptable	SM4500CI F
WP Total Residual Chlorine (cat# 587)							
0098	Total Residual Chlorine	mg/L	0.81	0.720	0.522 - 0.904	Acceptable	SM4500CI G



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Microbiology Results



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WP WasteWatR™ Coliform MicrobE™ (cat# 576)

2500	Total Coliforms (MF)	CFU/100mL		181	141 - 232	Not Reported	
2530	Fecal Coliforms (MF)	CFU/100mL		84.0	13.0 - 522	Not Reported	
2525	E.coli (MF)	CFU/100mL		79.0	17.0 - 360	Not Reported	
2500	Total Coliforms (MPN)	MPN/100mL	291	278	50.8 - 1520	Acceptable	SM 9223B Quantitra
2530	Fecal Coliforms (MPN)	MPN/100mL		208	16.1 - 2690	Not Reported	
2525	E.coli (MPN)	MPN/100mL	291	334	138 - 808	Acceptable	SM 9223B Quantitra

WP WasteWatR™ Coliform MicrobE™ (cat# 576)

2500	Total Coliforms (MF)	CFU/100mL		181	141 - 232	Not Reported	
2530	Fecal Coliforms (MF)	CFU/100mL	54	84.0	13.0 - 522	Acceptable	SM9222D m FC
2525	E.coli (MF)	CFU/100mL		79.0	17.0 - 360	Not Reported	
2500	Total Coliforms (MPN)	MPN/100mL		278	50.8 - 1520	Not Reported	
2530	Fecal Coliforms (MPN)	MPN/100mL	80	208	16.1 - 2690	Acceptable	SM9221E EC
2525	E.coli (MPN)	MPN/100mL		334	138 - 808	Not Reported	

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WP Volatiles (cat# 830)							
4315	Acetone	µg/L	141	132	25.6 - 213	Acceptable	EPA 624/8260B
4320	Acetonitrile	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
4325	Acrolein	µg/L	< 50	0.00		Acceptable	EPA 624/8260B
4340	Acrylonitrile	µg/L	< 50	0.00		Acceptable	EPA 624/8260B
0065	Benzene	µg/L	58.5	54.2	39.1 - 69.0	Acceptable	EPA 624/8260B
0060	Bromodichloromethane	µg/L	< 5	0.00		Acceptable	EPA 624/8260B
0062	Bromoform	µg/L	< 5.6	0.00		Acceptable	EPA 624/8260B
4950	Bromomethane	µg/L	< 8	0.00		Acceptable	EPA 624/8260B
4410	2-Butanone (MEK)	µg/L	152	128	37.3 - 200	Acceptable	EPA 624/8260B
5000	tert-Butyl methyl ether (MTBE)	µg/L	18.2	16.3	9.13 - 24.7	Acceptable	EPA 624/8260B
4450	Carbon disulfide	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
0058	Carbon tetrachloride	µg/L	39.0	33.8	18.8 - 46.4	Acceptable	EPA 624/8260B
0064	Chlorobenzene	µg/L	80.3	74.3	53.6 - 93.0	Acceptable	EPA 624/8260B
0061	Chlorodibromomethane	µg/L	22.1	21.5	14.4 - 28.4	Acceptable	EPA 624/8260B
4485	Chloroethane	µg/L	< 8	0.00		Acceptable	EPA 624/8260B
4500	2-Chloroethylvinylether	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
0055	Chloroform	µg/L	37.6	33.5	23.1 - 43.8	Acceptable	EPA 624/8260B
4960	Chloromethane	µg/L	30.4	20.8	8.32 - 33.3	Acceptable	EPA 624/8260B
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
4585	1,2-Dibromoethane (EDB)	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
4595	Dibromomethane	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
0094	1,2-Dichlorobenzene	µg/L	< 4.9	0.00		Acceptable	EPA 624/8260B
0096	1,3-Dichlorobenzene	µg/L	46.4	43.0	28.8 - 55.0	Acceptable	EPA 624/8260B
0095	1,4-Dichlorobenzene	µg/L	111	107	72.8 - 133	Acceptable	EPA 624/8260B
4625	Dichlorodifluoromethane (Freon 12)	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
4630	1,1-Dichloroethane	µg/L	22.4	20.4	13.5 - 27.8	Acceptable	EPA 624/8260B
0054	1,2-Dichloroethane	µg/L	118	98.6	68.5 - 129	Acceptable	EPA 624/8260B
4640	1,1-Dichloroethylene	µg/L	< 6.1	0.00		Acceptable	EPA 624/8260B
4645	cis-1,2-Dichloroethylene	µg/L	< 9.6	0.00		Acceptable	EPA 624/8260B
4700	trans-1,2-Dichloroethylene	µg/L	< 3.6	0.00		Acceptable	EPA 624/8260B
4655	1,2-Dichloropropane	µg/L	20.0	17.7	11.1 - 24.1	Acceptable	EPA 624/8260B
4680	cis-1,3-Dichloropropylene	µg/L	83.3	92.8	65.0 - 121	Acceptable	EPA 624/8260B

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WP Volatiles (cat# 830) (Continued)

4685	trans-1,3-Dichloropropylene	µg/L	75.6	77.2	50.0 - 105	Acceptable	EPA 624/8260B
0066	Ethylbenzene	µg/L	12.0	11.1	7.27 - 15.0	Acceptable	EPA 624/8260B
4835	Hexachlorobutadiene	µg/L	97.9	77.5	8.08 - 94.7	Not Acceptable	EPA 624/8260B
4860	2-Hexanone	µg/L	< 8	0.00		Acceptable	EPA 624/8260B
0063	Methylene chloride	µg/L	20.9	21.9	13.2 - 31.7	Acceptable	EPA 624/8260B
4995	4-Methyl-2-pentanone (MIBK)	µg/L	< 4.3	0.00		Acceptable	EPA 624/8260B
5005	Naphthalene	µg/L	38.4	41.8	13.2 - 52.9	Acceptable	EPA 624/8260B
5100	Styrene	µg/L	63.6	60.1	38.6 - 82.1	Acceptable	EPA 624/8260B
5105	1,1,1,2-Tetrachloroethane	µg/L	122	95.3	61.6 - 128	Acceptable	EPA 624/8260B
5110	1,1,2,2-Tetrachloroethane	µg/L	67.2	58.8	33.7 - 86.8	Acceptable	EPA 624/8260B
0059	Tetrachloroethylene	µg/L	< 4.3	0.00		Acceptable	EPA 624/8260B
0067	Toluene	µg/L	33.9	31.6	22.0 - 40.0	Acceptable	EPA 624/8260B
5155	1,2,4-Trichlorobenzene	µg/L	37.1	42.8	7.86 - 54.4	Acceptable	EPA 624/8260B
0056	1,1,1-Trichloroethane	µg/L	< 6.5	0.00		Acceptable	EPA 624/8260B
5165	1,1,2-Trichloroethane	µg/L	< 17	0.00		Acceptable	EPA 624/8260B
0057	Trichloroethylene	µg/L	88.2	77.9	49.5 - 101	Acceptable	EPA 624/8260B
5175	Trichlorofluoromethane	µg/L	< 8	0.00		Acceptable	EPA 624/8260B
5180	1,2,3-Trichloropropane (TCP)	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
5225	Vinyl acetate	µg/L	< 10	0.00		Acceptable	EPA 624/8260B
5235	Vinyl chloride	µg/L	27.8	20.4	8.16 - 32.6	Acceptable	EPA 624/8260B
5260	Xylenes, total	µg/L	142	123	70.3 - 166	Acceptable	EPA 624/8260B

WP Chlorinated Acid Herbicides (cat# 829)

8505	Acifluorfen	µg/L		6.40	1.14 - 9.53	Not Reported	
8530	Bentazon	µg/L		2.10	0.210 - 3.99	Not Reported	
8540	Chloramben	µg/L		7.72	0.772 - 11.3	Not Reported	
8545	2,4-D	µg/L	1.50	2.36	0.236 - 4.10	Acceptable	EPA 615/8151A
8560	2,4-DB	µg/L	12.3	4.90	0.490 - 9.38	Not Acceptable	EPA 615/8151A
8550	Dacthal diacid (DCPA)	µg/L		2.45	0.245 - 4.43	Not Reported	
8555	Dalapon	µg/L	5.00	8.91	0.891 - 14.9	Acceptable	EPA 615/8151A
8595	Dicamba	µg/L	7.30	9.55	0.955 - 13.7	Acceptable	EPA 615/8151A
8600	3,5-Dichlorobenzoic acid	µg/L		2.43	0.641 - 3.60	Not Reported	
8605	Dichlorprop	µg/L	4.20	6.79	1.09 - 10.1	Acceptable	EPA 615/8151A
8620	Dinoseb	µg/L	3.50	5.94	0.594 - 9.23	Acceptable	EPA 615/8151A
7775	MCPA	µg/L	0.00	0.00		Acceptable	EPA 615/8151A
7780	MCPP	µg/L	0.00	0.00		Acceptable	EPA 615/8151A
6500	4-Nitrophenol	µg/L		7.11	0.711 - 12.0	Not Reported	
6605	Pentachlorophenol	µg/L		4.09	0.409 - 6.54	Not Reported	
8645	Picloram	µg/L		8.58	0.858 - 15.3	Not Reported	
8655	2,4,5-T	µg/L	4.70	6.60	0.660 - 9.71	Acceptable	EPA 615/8151A
8650	2,4,5-TP (Silvex)	µg/L	2.60	3.78	0.404 - 5.66	Acceptable	EPA 615/8151A



A Waters Company

WP-191 Final Complete Report

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WP PCBs in Water (cat# 832S)

0040	Aroclor 1016	µg/L	0.00	0.00		Acceptable	EPA 608/8082A
8885	Aroclor 1221	µg/L	0.00	0.00		Acceptable	EPA 608/8082A
0042	Aroclor 1232	µg/L	0.00	0.00		Acceptable	EPA 608/8082A
0040	Aroclor 1242	µg/L	11	11.4	2.98 - 16.2	Acceptable	EPA 608/8082A
0044	Aroclor 1248	µg/L	0.00	0.00		Acceptable	EPA 608/8082A
0045	Aroclor 1254	µg/L	0.00	0.00		Acceptable	EPA 608/8082A
0046	Aroclor 1260	µg/L	0.00	0.00		Acceptable	EPA 608/8082A

WP PCBs in Oil (cat# 835S)

8880	Aroclor 1016	mg/kg	0.0	0.00		Acceptable	EPA 8082A
8895	Aroclor 1242	mg/kg	0.0	0.00		Acceptable	EPA 8082A
8905	Aroclor 1254	mg/kg	0.0	0.00		Acceptable	EPA 8082A
8910	Aroclor 1260	mg/kg	17	22.6	4.23 - 32.2	Acceptable	EPA 8082A



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WP Base/Neutrals (cat# 833)							
5500	Acenaphthene	µg/L	110	153	59.6 - 180	Acceptable	EPA 625/8270D
5505	Acenaphthylene	µg/L	63.0	85.5	33.8 - 104	Acceptable	EPA 625/8270D
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5545	Aniline	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5555	Anthracene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5595	Benzidine	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5575	Benzo(a)anthracene	µg/L	42.0	49.4	22.1 - 63.1	Acceptable	EPA 625/8270D
5585	Benzo(b)fluoranthene	µg/L	37.0	46.5	16.6 - 63.5	Acceptable	EPA 625/8270D
5600	Benzo(k)fluoranthene	µg/L	61.0	75.4	18.5 - 109	Acceptable	EPA 625/8270D
5590	Benzo(g,h,i)perylene	µg/L	39.0	43.1	13.3 - 61.0	Acceptable	EPA 625/8270D
5580	Benzo(a)pyrene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5630	Benzyl alcohol	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5660	4-Bromophenyl-phenylether	µg/L	74.0	93.0	30.6 - 125	Acceptable	EPA 625/8270D
5670	Butylbenzylphthalate	µg/L	109	120	22.9 - 171	Acceptable	EPA 625/8270D
5680	Carbazole	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5745	4-Chloroaniline	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5760	bis(2-Chloroethoxy)methane	µg/L	45.0	75.4	29.6 - 90.2	Acceptable	EPA 625/8270D
5765	bis(2-Chloroethyl)ether	µg/L	32.0	57.7	16.7 - 72.9	Acceptable	EPA 625/8270D
5780	bis(2-Chloroisopropyl)ether	µg/L	92.0	165	39.3 - 198	Acceptable	EPA 625/8270D
5790	1-Chloronaphthalene	µg/L		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5825	4-Chlorophenyl-phenylether	µg/L	97.0	120	44.9 - 149	Acceptable	EPA 625/8270D
5855	Chrysene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5895	Dibenz(a,h)anthracene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5905	Dibenzofuran	µg/L	59.0	80.2	28.5 - 101	Acceptable	EPA 625/8270D
5925	Di-n-butylphthalate	µg/L	114	127	41.2 - 164	Acceptable	EPA 625/8270D
4610	1,2-Dichlorobenzene	µg/L	17.0	40.0	4.00 - 51.7	Acceptable	EPA 625/8270D
4615	1,3-Dichlorobenzene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
4620	1,4-Dichlorobenzene	µg/L	48.0	118	11.8 - 140	Acceptable	EPA 625/8270D
5945	3,3'-Dichlorobenzidine	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6070	Diethylphthalate	µg/L	77.0	92.2	16.4 - 128	Acceptable	EPA 625/8270D
6135	Dimethylphthalate	µg/L	0.00	0.00		Acceptable	EPA 625/8270D

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WP Base/Neutrals (cat# 833) (Continued)

6185	2,4-Dinitrotoluene	µg/L	23.0	30.0	9.27 - 41.2	Acceptable	EPA 625/8270D
6190	2,6-Dinitrotoluene	µg/L	48.0	67.5	27.3 - 84.8	Acceptable	EPA 625/8270D
6200	Di-n-octylphthalate	µg/L	138	184	33.5 - 269	Acceptable	EPA 625/8270D
6065	bis(2-Ethylhexyl)phthalate	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6265	Fluoranthene	µg/L	68.0	83.6	37.3 - 102	Acceptable	EPA 625/8270D
6270	Fluorene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6275	Hexachlorobenzene	µg/L	107	129	56.4 - 157	Acceptable	EPA 625/8270D
4835	Hexachlorobutadiene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6285	Hexachlorocyclopentadiene	µg/L	90.0	146	14.6 - 189	Acceptable	EPA 625/8270D
4840	Hexachloroethane	µg/L	39.0	102	10.6 - 120	Acceptable	EPA 625/8270D
6315	Indeno(1,2,3-cd)pyrene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6320	Isophorone	µg/L	38.0	64.5	25.8 - 83.9	Acceptable	EPA 625/8270D
6385	2-Methylnaphthalene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5005	Naphthalene	µg/L	35.0	64.3	18.4 - 78.6	Acceptable	EPA 625/8270D
6460	2-Nitroaniline	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6465	3-Nitroaniline	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6470	4-Nitroaniline	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5015	Nitrobenzene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6525	N-Nitrosodiethylamine	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6530	N-Nitrosodimethylamine	µg/L	42.0	100	10.0 - 119	Acceptable	EPA 625/8270D
6535	N-Nitrosodiphenylamine	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6545	N-Nitroso-di-n-propylamine	µg/L	50.0	76.7	21.4 - 100	Acceptable	EPA 625/8270D
6590	Pentachlorobenzene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6615	Phenanthrene	µg/L	85.0	98.7	45.7 - 119	Acceptable	EPA 625/8270D
6665	Pyrene	µg/L	58.0	70.8	23.3 - 98.1	Acceptable	EPA 625/8270D
5095	Pyridine	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
6715	1,2,4,5-Tetrachlorobenzene	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5155	1,2,4-Trichlorobenzene	µg/L	67.0	136	30.7 - 160	Acceptable	EPA 625/8270D

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WP Acids (cat# 834)							
5610	Benzoic acid	µg/L	0.00	0.00		Acceptable	EPA 625/8270D
5700	4-Chloro-3-methylphenol	µg/L	110	192	76.1 - 246	Acceptable	EPA 625/8270D
5800	2-Chlorophenol	µg/L	97.0	192	53.6 - 240	Acceptable	EPA 625/8270D
6000	2,4-Dichlorophenol	µg/L	69.0	118	38.1 - 145	Acceptable	EPA 625/8270D
6005	2,6-Dichlorophenol	µg/L	92.0	154	53.6 - 190	Acceptable	EPA 625/8270D
6130	2,4-Dimethylphenol	µg/L	45.0	70.8	13.6 - 93.8	Acceptable	EPA 625/8270D
6360	4,6-Dinitro-2-methylphenol	µg/L	82.0	140	48.7 - 199	Acceptable	EPA 625/8270D
6175	2,4-Dinitrophenol	µg/L	49.0	140	14.0 - 192	Acceptable	EPA 625/8270D
6400	2-Methylphenol	µg/L	50.0	94.2	17.8 - 117	Acceptable	EPA 625/8270D
6410	4-Methylphenol	µg/L	65.0	142	14.2 - 183	Acceptable	EPA 625/8270D
6490	2-Nitrophenol	µg/L	79.0	141	32.7 - 185	Acceptable	EPA 625/8270D
6500	4-Nitrophenol	µg/L	36.0	120	12.0 - 162	Acceptable	EPA 625/8270D
6605	Pentachlorophenol	µg/L	74.0	93.0	23.1 - 128	Acceptable	EPA 625/8270D
6625	Phenol	µg/L	42.0	177	17.7 - 237	Acceptable	EPA 625/8270D
6735	2,3,4,6-Tetrachlorophenol	µg/L	110	131	29.5 - 176	Acceptable	EPA 625/8270D
6835	2,4,5-Trichlorophenol	µg/L	113	184	63.2 - 232	Acceptable	EPA 625/8270D
6840	2,4,6-Trichlorophenol	µg/L	60.0	85.3	27.2 - 108	Acceptable	EPA 625/8270D

WP Organochlorine Pesticides (cat# 831)

0047	Aldrin	µg/L	9.8	9.18	2.58 - 12.6	Acceptable	EPA 608/8081B
7110	alpha-BHC	µg/L	11	12.0	5.44 - 16.2	Acceptable	EPA 608/8081B
7115	beta-BHC	µg/L	13	12.4	5.19 - 16.7	Acceptable	EPA 608/8081B
7105	delta-BHC	µg/L	7.1	7.37	2.73 - 10.3	Acceptable	EPA 608/8081B
7120	gamma-BHC(Lindane)	µg/L	6.8	6.84	2.79 - 9.44	Acceptable	EPA 608/8081B
7240	alpha-Chlordane	µg/L	1.5	1.47	0.648 - 2.14	Acceptable	EPA 608/8081B
7245	gamma-Chlordane	µg/L	4.8	4.64	1.93 - 6.35	Acceptable	EPA 608/8081B
0049	4,4'-DDD	µg/L	6.8	6.74	2.49 - 9.62	Acceptable	EPA 608/8081B
0050	4,4'-DDE	µg/L	7.1	7.21	3.21 - 9.32	Acceptable	EPA 608/8081B
0051	4,4'-DDT	µg/L	3.7	3.47	1.30 - 5.02	Acceptable	EPA 608/8081B
0048	Dieldrin	µg/L	7.8	8.14	3.99 - 11.1	Acceptable	EPA 608/8081B
7540	Endrin	µg/L	4.0	3.76	1.44 - 5.72	Acceptable	EPA 608/8081B
7530	Endrin aldehyde	µg/L	7.5	8.47	2.43 - 12.8	Acceptable	EPA 608/8081B
7535	Endrin ketone	µg/L	6.7	8.78	4.83 - 12.7	Acceptable	EPA 608/8081B
7510	Endosulfan I	µg/L	4.6	6.05	1.55 - 8.54	Acceptable	EPA 608/8081B
7515	Endosulfan II	µg/L	5.1	5.97	2.03 - 8.16	Acceptable	EPA 608/8081B
7520	Endosulfan sulfate	µg/L	21	18.3	6.96 - 26.7	Acceptable	EPA 608/8081B
0052	Heptachlor	µg/L	9.5	9.77	3.16 - 13.3	Acceptable	EPA 608/8081B
0078	Heptachlor epoxide (beta)	µg/L	3.1	2.46	1.17 - 3.51	Acceptable	EPA 608/8081B
7810	Methoxychlor	µg/L	7.8	7.31	1.91 - 11.6	Acceptable	EPA 608/8081B

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WP Organochlorine Pesticides (cat# 831)

0047	Aldrin	µg/L		9.18	2.58 - 12.6	Not Reported	
7110	alpha-BHC	µg/L		12.0	5.44 - 16.2	Not Reported	
7115	beta-BHC	µg/L		12.4	5.19 - 16.7	Not Reported	
7105	delta-BHC	µg/L		7.37	2.73 - 10.3	Not Reported	
7120	gamma-BHC(Lindane)	µg/L		6.84	2.79 - 9.44	Not Reported	
7240	alpha-Chlordane	µg/L		1.47	0.648 - 2.14	Not Reported	
7245	gamma-Chlordane	µg/L		4.64	1.93 - 6.35	Not Reported	
0049	4,4'-DDD	µg/L		6.74	2.49 - 9.62	Not Reported	
0050	4,4'-DDE	µg/L		7.21	3.21 - 9.32	Not Reported	
0051	4,4'-DDT	µg/L		3.47	1.30 - 5.02	Not Reported	
0048	Dieldrin	µg/L		8.14	3.99 - 11.1	Not Reported	
7540	Endrin	µg/L		3.76	1.44 - 5.72	Not Reported	
7530	Endrin aldehyde	µg/L		8.47	2.43 - 12.8	Not Reported	
7535	Endrin ketone	µg/L		8.78	4.83 - 12.7	Not Reported	
7510	Endosulfan I	µg/L		6.05	1.55 - 8.54	Not Reported	
7515	Endosulfan II	µg/L		5.97	2.03 - 8.16	Not Reported	
7520	Endosulfan sulfate	µg/L		18.3	6.96 - 26.7	Not Reported	
0052	Heptachlor	µg/L		9.77	3.16 - 13.3	Not Reported	
0078	Heptachlor epoxide (beta)	µg/L		2.46	1.17 - 3.51	Not Reported	
7810	Methoxychlor	µg/L	7.8	7.31	1.91 - 11.6	Acceptable	EPA 608.2

WP Chlordane (cat# 837)

0053	Chlordane, technical	µg/L	17	19.3	7.24 - 27.9	Acceptable	EPA 608/8081B
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WP Toxaphene (cat# 838)

8250	Toxaphene	µg/L	49	42.9	4.29 - 77.6	Acceptable	EPA 608/8081B
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