



A Waters Company

Thekkekalathil Chandrasekhar
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
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USA

WP-231



Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 04/14/14

Close Date: 05/29/14

Report Issued Date: 06/02/14



A Waters Company

June 2, 2014

Thekkekalathil Chandrasekhar
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Enclosed is your final report for ERA's WP-231 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-231 WatR™ Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the current TNI Fields of Proficiency Testing (FoPT) tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the current TNI FoPT tables. If the analyte is not included in the TNI 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 many years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be useful in helping you work through your technical issues.

At the request of the TNI Accreditation Council, we have included a Laboratory Exception Report that includes a list of all analytes reported with less than qualifiers when the assigned value was greater than "0." In addition, because we have received many requests from laboratories, this report also includes a list of all analytes with "Not Acceptable" evaluations.

Some states have elected not to convert to the 2009 TNI Standards at this time. If you have released your results to a state that has retained the 2003 NELAC Evaluation Criteria, your final report will include a section that evaluates the results according to the 2003 Standard in addition to the 2009 TNI Standards.

Thank you for your participation in ERA's WP-231 WatR™ Pollution Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

Kristina Sanchez
Quality Officer

attachments



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Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
Florida	Steve Arms / 904-791-1502	All Analytes	2009 TNI



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WP-231 Definitions & Study Discussion

Study Dates: 04/14/14 - 05/29/14

Report Issued: 06/02/14

WP Study Definitions

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

The ERA Assigned Values are compliant with the most current TNI Fields of Proficiency Testing (FoPT) tables. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2009 TNI Standards. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current 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-231 WatR™Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) tables.

ERA's WP-231 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 2009 TNI PT Standard and the criteria contained in the most current TNI 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-231 WatR™Pollution study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

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

If you have any questions or concerns regarding your assessment in ERA's WatR™Pollution Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.





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WP-231 Laboratory Exception Report

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2009 TNI Evaluation Checks

There are no values reported with < where the assigned value was greater than 0.

2009 TNI Not Acceptable Evaluations

There were no Not Acceptable evaluations for this study.



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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Final Report Results For Laboratory State of Florida DEP Chemistry Laboratory

2009 TNI Evaluation Report

Study: **WP-231**

ERA Customer Number: **S744803**

Laboratory Name: **State of Florida DEP
Chemistry Laboratory**

Inorganic Results



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WP-231 2009 TNI Evaluation Final Complete Report

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TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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WP Minerals (cat# 581)

1505	Alkalinity as CaCO ₃	mg/L	31.8	32.0	25.6 - 38.4	Acceptable	SM2320B online	4/30/2014	-0.218	32.2	1.90	SIMMONS_D
1575	Chloride	mg/L	48.4	49.7	43.1 - 56.5	Acceptable	EPA 300.0 2.1	4/30/2014	-0.345	49.2	2.26	DEARMAN_G
1610	Conductivity at 25°C	µmhos/cm	340	329	296 - 362	Acceptable	EPA 120.1	4/30/2014	0.298	338	7.56	SIMMONS_D
1730	Fluoride	mg/L	3.71	3.59	2.91 - 4.12	Acceptable	SM4500F- C online	4/30/2014	1.23	3.50	0.173	SIMMONS_D
1125	Potassium	mg/L	33.5	34.6	27.7 - 41.5	Acceptable	EPA 200.7 4.4	5/7/2014	0.0202	33.5	2.00	AYRES_J
1155	Sodium	mg/L	45.5	46.0	36.8 - 55.2	Acceptable	EPA 200.7 4.4	5/6/2014	0.0491	45.4	2.57	AYRES_J
2000	Sulfate	mg/L	31.4	33.5	27.1 - 38.6	Acceptable	EPA 300.0 2.1	4/30/2014	-0.445	32.3	1.94	DEARMAN_G
1955	Total Dissolved Solids at 180°C	mg/L	208	223	178 - 268	Acceptable	SM2540C online	5/7/2014	-0.391	214	16.1	LI_Y
1950	Total Solids at 105°C	mg/L		225	180 - 270	Not Reported				222	13.6	

WP Hardness (cat# 580)

1960	Total Suspended Solids	mg/L	52.2	55.2	43.4 - 62.8	Acceptable	SM 2540 D-1997	4/29/2014	0.130	51.7	3.69	LI_Y
1035	Calcium	mg/L	45.5	45.3	38.5 - 52.1	Acceptable	EPA 200.7 4.4	5/6/2014	0.358	44.8	1.98	AYRES_J
1085	Magnesium	mg/L	5.89	5.79	4.92 - 6.66	Acceptable	EPA 200.7 4.4	5/6/2014	0.656	5.70	0.282	AYRES_J
1550	Calcium Hardness as CaCO ₃	mg/L		113	96.0 - 130	Not Reported				112	5.94	
1755	Total Hardness as CaCO ₃	mg/L	138	137	116 - 158	Acceptable	SM2340B online	5/6/2014	0.503	135	5.96	AYRES_J

WP Simple Nutrients (cat# 584)

1515	Ammonia as N	mg/L	7.42	7.52	5.93 - 9.11	Acceptable	EPA 350.1 2	5/9/2014	-0.150	7.51	0.582	TURNER_D
1820	Nitrate + Nitrite as N	mg/L	10.4	10.8	8.98 - 12.5	Acceptable	EPA 353.2 2	5/8/2014	-0.708	10.8	0.517	KAUS_P
1810	Nitrate as N	mg/L	10.3	10.8	8.94 - 12.6	Acceptable	EPA 300.0 2.1	5/9/2014	-0.834	10.7	0.488	DEARMAN_G
1870	ortho-Phosphate as P	mg/L	1.77	1.83	1.56 - 2.10	Acceptable	EPA 365.1 2	5/8/2014	-0.589	1.83	0.110	WERTH_B



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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WP Simple Nutrients (cat# 584)

1515	Ammonia as N	mg/L		7.52	5.93 - 9.11	Not Reported				7.51	0.582	
1820	Nitrate + Nitrite as N	mg/L		10.8	8.98 - 12.5	Not Reported				10.8	0.517	
1810	Nitrate as N	mg/L	10.4	10.8	8.94 - 12.6	Acceptable	EPA 353.2 2	5/8/2014	-0.629	10.7	0.488	LOMASNEY_A
1870	ortho-Phosphate as P	mg/L		1.83	1.56 - 2.10	Not Reported				1.83	0.110	

WP Complex Nutrients (cat# 579)

1795	Total Kjeldahl Nitrogen	mg/L	17.6	17.4	13.0 - 21.2	Acceptable	EPA 351.2 2	5/13/2014	0.0291	17.6	1.45	WERTH_B
1910	Total phosphorus as P	mg/L	4.19	4.04	3.33 - 4.71	Acceptable	EPA 365.1 2	5/9/2014	0.680	4.03	0.235	JACKSON_R

WP Nitrite (cat# 888)

1840	Nitrite as N	mg/L	2.47	2.44	2.09 - 2.79	Acceptable	EPA 353.2 2	5/8/2014	0.145	2.45	0.122	BROWN_V
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WP Demand (cat# 578)

1530	BOD	mg/L	27.0	39.4	20.1 - 58.6	Acceptable	SM5210B online	5/1/2014	-1.77	39.1	6.82	WOODS_J
1555	CBOD	mg/L	24.0	35.7	15.3 - 56.1	Acceptable	SM5210B online	5/1/2014	-1.78	36.6	7.08	WOODS_J
1565	COD	mg/L		63.4	44.8 - 79.4	Not Reported				62.2	6.85	
2040	TOC	mg/L	25.4	25.0	20.4 - 29.6	Acceptable	SM5310B online	5/1/2014	0.351	24.8	1.60	HUA_P



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WP Trace Metals (cat# 586)

1000	Aluminum	µg/L	1810	1740	1440 - 2000	Acceptable	EPA 200.7 4.4	5/6/2014	0.675	1740	97.6	AYRES_J
1005	Antimony	µg/L	552	604	491 - 698	Acceptable	EPA 200.7 4.4	5/6/2014	-1.13	592	35.5	AYRES_J
1010	Arsenic	µg/L	671	706	596 - 806	Acceptable	EPA 200.7 4.4	5/6/2014	-0.647	691	31.5	AYRES_J
1015	Barium	µg/L	1400	1380	1170 - 1590	Acceptable	EPA 200.7 4.4	5/6/2014	0.302	1380	65.2	AYRES_J
1020	Beryllium	µg/L	342	331	281 - 381	Acceptable	EPA 200.7 4.4	5/6/2014	0.0853	341	16.7	AYRES_J
1025	Boron	µg/L	1660	1730	1470 - 1990	Acceptable	EPA 200.7 4.4	5/6/2014	-0.668	1730	98.5	AYRES_J
1030	Cadmium	µg/L	196	203	173 - 233	Acceptable	EPA 200.7 4.4	5/6/2014	-0.516	201	9.12	AYRES_J
1040	Chromium	µg/L	240	239	203 - 275	Acceptable	EPA 200.7 4.4	5/6/2014	0.112	239	11.0	AYRES_J
1050	Cobalt	µg/L	865	815	693 - 937	Acceptable	EPA 200.7 4.4	5/6/2014	0.302	852	41.8	AYRES_J
1055	Copper	µg/L	737	723	615 - 831	Acceptable	EPA 200.7 4.4	5/6/2014	0.102	733	34.4	AYRES_J
1070	Iron	µg/L	1650	1520	1290 - 1750	Acceptable	EPA 200.7 4.4	5/6/2014	1.47	1540	74.1	AYRES_J
1075	Lead	µg/L	874	901	766 - 1040	Acceptable	EPA 200.7 4.4	5/6/2014	-0.701	903	41.6	AYRES_J
1090	Manganese	µg/L	320	302	257 - 347	Acceptable	EPA 200.7 4.4	5/6/2014	0.532	312	15.1	AYRES_J
1100	Molybdenum	µg/L	113	111	90.3 - 130	Acceptable	EPA 200.7 4.4	5/6/2014	0.636	110	5.00	AYRES_J
1105	Nickel	µg/L	379	376	325 - 431	Acceptable	EPA 200.7 4.4	5/6/2014	0.402	371	19.8	AYRES_J
1140	Selenium	µg/L	685	699	594 - 804	Acceptable	EPA 200.7 4.4	5/6/2014	-0.119	690	37.8	AYRES_J
1150	Silver	µg/L	310	312	265 - 359	Acceptable	EPA 200.7 4.4	5/6/2014	-0.226	314	18.3	AYRES_J
1160	Strontium	µg/L	392	383	326 - 440	Acceptable	EPA 200.7 4.4	5/6/2014	0.368	385	18.2	AYRES_J
1165	Thallium	µg/L	413	397	324 - 463	Acceptable	EPA 200.7 4.4	5/6/2014	0.871	395	20.2	AYRES_J
1185	Vanadium	µg/L	720	726	617 - 835	Acceptable	EPA 200.7 4.4	5/6/2014	-0.0368	721	32.6	AYRES_J



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WP Trace Metals (cat# 586) (Continued)

1190	Zinc	µg/L	1300	1220	1040 - 1400	Acceptable	EPA 200.7 4.4	5/6/2014	1.11	1220	68.7	AYRES_J
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WP Trace Metals (cat# 586)

1000	Aluminum	µg/L		1740	1440 - 2000	Not Reported				1740	97.6	
1005	Antimony	µg/L		604	491 - 698	Not Reported				592	35.5	
1010	Arsenic	µg/L		706	596 - 806	Not Reported				691	31.5	
1015	Barium	µg/L		1380	1170 - 1590	Not Reported				1380	65.2	
1020	Beryllium	µg/L	324	331	281 - 381	Acceptable	EPA 200.8 5.4	5/9/2014	-0.989	341	16.7	KPALMER_R
1025	Boron	µg/L		1730	1470 - 1990	Not Reported				1730	98.5	
1030	Cadmium	µg/L		203	173 - 233	Not Reported				201	9.12	
1040	Chromium	µg/L		239	203 - 275	Not Reported				239	11.0	
1050	Cobalt	µg/L		815	693 - 937	Not Reported				852	41.8	
1055	Copper	µg/L		723	615 - 831	Not Reported				733	34.4	
1070	Iron	µg/L		1520	1290 - 1750	Not Reported				1540	74.1	
1075	Lead	µg/L		901	766 - 1040	Not Reported				903	41.6	
1090	Manganese	µg/L		302	257 - 347	Not Reported				312	15.1	
1100	Molybdenum	µg/L		111	90.3 - 130	Not Reported				110	5.00	
1105	Nickel	µg/L		376	325 - 431	Not Reported				371	19.8	
1140	Selenium	µg/L		699	594 - 804	Not Reported				690	37.8	
1150	Silver	µg/L		312	265 - 359	Not Reported				314	18.3	
1160	Strontium	µg/L		383	326 - 440	Not Reported				385	18.2	
1165	Thallium	µg/L		397	324 - 463	Not Reported				395	20.2	
1185	Vanadium	µg/L		726	617 - 835	Not Reported				721	32.6	



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WP Trace Metals (cat# 586) (Continued)

1190	Zinc	µg/L		1220	1040 - 1400	Not Reported				1220	68.7	
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WP Trace Metals (cat# 586)

1000	Aluminum	µg/L	1770	1740	1440 - 2000	Acceptable	EPA 200.8 5.4	5/6/2014	0.265	1740	97.6	PETERSON_C
1005	Antimony	µg/L	573	604	491 - 698	Acceptable	EPA 200.8 5.4	5/8/2014	-0.543	592	35.5	PETERSON_C
1010	Arsenic	µg/L	665	706	596 - 806	Acceptable	EPA 200.8 5.4	5/8/2014	-0.837	691	31.5	PETERSON_C
1015	Barium	µg/L	1400	1380	1170 - 1590	Acceptable	EPA 200.8 5.4	5/6/2014	0.302	1380	65.2	PETERSON_C
1020	Beryllium	µg/L		331	281 - 381	Not Reported				341	16.7	
1025	Boron	µg/L		1730	1470 - 1990	Not Reported				1730	98.5	
1030	Cadmium	µg/L	198	203	173 - 233	Acceptable	EPA 200.8 5.4	5/8/2014	-0.297	201	9.12	PETERSON_C
1040	Chromium	µg/L	243	239	203 - 275	Acceptable	EPA 200.8 5.4	5/6/2014	0.385	239	11.0	PETERSON_C
1050	Cobalt	µg/L	882	815	693 - 937	Acceptable	EPA 200.8 5.4	5/6/2014	0.709	852	41.8	PETERSON_C
1055	Copper	µg/L	749	723	615 - 831	Acceptable	EPA 200.8 5.4	5/6/2014	0.451	733	34.4	PETERSON_C
1070	Iron	µg/L		1520	1290 - 1750	Not Reported				1540	74.1	
1075	Lead	µg/L	859	901	766 - 1040	Acceptable	EPA 200.8 5.4	5/8/2014	-1.06	903	41.6	PETERSON_C
1090	Manganese	µg/L	303	302	257 - 347	Acceptable	EPA 200.8 5.4	5/9/2014	-0.596	312	15.1	PETERSON_C
1100	Molybdenum	µg/L	116	111	90.3 - 130	Acceptable	EPA 200.8 5.4	5/6/2014	1.24	110	5.00	PETERSON_C
1105	Nickel	µg/L	391	376	325 - 431	Acceptable	EPA 200.8 5.4	5/6/2014	1.01	371	19.8	PETERSON_C
1140	Selenium	µg/L	679	699	594 - 804	Acceptable	EPA 200.8 5.4	5/8/2014	-0.278	690	37.8	PETERSON_C
1150	Silver	µg/L	319	312	265 - 359	Acceptable	EPA 200.8 5.4	5/6/2014	0.266	314	18.3	PETERSON_C
1160	Strontium	µg/L		383	326 - 440	Not Reported				385	18.2	
1165	Thallium	µg/L	409	397	324 - 463	Acceptable	EPA 200.8 5.4	5/8/2014	0.673	395	20.2	PETERSON_C
1185	Vanadium	µg/L		726	617 - 835	Not Reported				721	32.6	



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WP Trace Metals (cat# 586) (Continued)

1190	Zinc	µg/L	1260	1220	1040 - 1400	Acceptable	EPA 200.8 5.4	5/6/2014	0.531	1220	68.7	PETERSON_C
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WP Mercury (cat# 574)

1095	Mercury	µg/L	17.4	17.6	12.3 - 22.9	Acceptable	EPA 245.1 3	5/6/2014	-0.115	17.6	1.87	ACOSTA_M
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WP Low-Level Mercury (cat# 896)

1095	Low Level Mercury	ng/L	69.4	65.0	48.5 - 80.8	Acceptable	EPA 1631E	5/8/2014	0.601	65.8	5.92	TOPOLSKI_B
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WP Tin & Titanium (cat# 573)

1175	Tin	µg/L	1870	1800	1260 - 2340	Acceptable	EPA 200.7 4.4	5/7/2014	0.801	1800	87.6	AYRES_J
1180	Titanium	µg/L	218	217	184 - 250	Acceptable	EPA 200.7 4.4	5/6/2014	0.238	215	10.8	AYRES_J

WP Color (cat# 882)

1605	Color	PC units	24.1	25.0	14.2 - 34.4	Acceptable	SM2120B online	5/12/2014	0.134	23.6	3.52	JACKSON_R
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WP Turbidity (cat# 893)

2055	Turbidity	NTU	8.06	8.39	6.72 - 10.1	Acceptable	EPA 180.1 2	4/29/2014	-0.249	8.19	0.533	FACH_B
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WP Total Cyanide (cat# 588)

1645	Cyanide, total	mg/L	0.599	0.598	0.389 - 0.807	Acceptable	EPA 335.4	5/2/2014	-0.102	0.605	0.0583	ARMOUR_C
1510	Amenable Cyanide	mg/L		0.284	0.185 - 0.383	Not Reported				0.284	0.121	

WP Silica (cat# 890)

1990	Silica as SiO ₂	mg/L	93.1	88.8	66.6 - 111	Acceptable	EPA 200.7 4.4	5/6/2014	1.00	88.1	5.04	AYRES_J
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2009 TNI Evaluation Report

Study: **WP-231**

ERA Customer Number: **S744803**

Laboratory Name: **State of Florida DEP
Chemistry Laboratory**

Organic Results



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WP Volatiles (cat# 830)

4315	Acetone	µg/L		100	26.1 - 158	Not Reported				87.0	26.0	
4320	Acetonitrile	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4325	Acrolein	µg/L	< 1.00	< 5.00	0.00 - 5.00	Acceptable	EPA 624 Appendix A 1982	5/13/2014				BERA_G
4340	Acrylonitrile	µg/L	< 1.00	< 5.00	0.00 - 5.00	Acceptable	EPA 624 Appendix A 1982	5/13/2014				BERA_G
4375	Benzene	µg/L		55.5	38.8 - 72.2	Not Reported				55.5	5.13	
4385	Bromobenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4390	Bromochloromethane	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4395	Bromodichloromethane	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4400	Bromoform	µg/L		26.8	16.1 - 37.5	Not Reported				26.8	2.78	
4950	Bromomethane	µg/L		< 8.00	0.00 - 8.00	Not Reported						
4410	2-Butanone (MEK)	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4435	n-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4440	sec-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4445	tert-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5000	tert-Butyl methyl ether (MTBE)	µg/L		44.0	29.1 - 60.3	Not Reported				43.6	4.07	
4450	Carbon disulfide	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4455	Carbon tetrachloride	µg/L		< 7.70	0.00 - 7.70	Not Reported						
4475	Chlorobenzene	µg/L		51.1	35.8 - 66.4	Not Reported				50.6	3.95	
4575	Chlorodibromomethane	µg/L		34.7	20.8 - 48.6	Not Reported				33.5	3.28	
4485	Chloroethane	µg/L		< 8.00	0.00 - 8.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

4500	2-Chloroethylvinylether	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4505	Chloroform	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4960	Chloromethane	µg/L		21.2	8.48 - 33.9	Not Reported				22.5	4.30	
4535	2-Chlorotoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4540	4-Chlorotoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/L		< 9.00	0.00 - 9.00	Not Reported						
4585	1,2-Dibromoethane (EDB)	µg/L		16.0	10.4 - 21.6	Not Reported				16.0	1.10	
4595	Dibromomethane	µg/L		33.9	22.0 - 45.8	Not Reported				34.2	2.89	
4610	1,2-Dichlorobenzene	µg/L		48.5	34.0 - 63.0	Not Reported				47.3	4.50	
4615	1,3-Dichlorobenzene	µg/L		29.6	20.7 - 38.5	Not Reported				28.9	2.85	
4620	1,4-Dichlorobenzene	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4625	Dichlorodifluoromethane (Freon 12)	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4630	1,1-Dichloroethane	µg/L		37.5	23.8 - 51.5	Not Reported				37.4	3.87	
4635	1,2-Dichloroethane	µg/L		23.8	16.9 - 32.7	Not Reported				24.2	2.28	
4640	1,1-Dichloroethylene	µg/L		22.6	13.4 - 33.3	Not Reported				23.7	3.73	
4645	cis-1,2-Dichloroethylene	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4700	trans-1,2-Dichloroethylene	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4655	1,2-Dichloropropane	µg/L		25.5	17.8 - 33.2	Not Reported				25.5	2.06	
4660	1,3-Dichloropropane	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4665	2,2-Dichloropropane	µg/L		< 5.00	0.00 - 5.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

4670	1,1-Dichloropropene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4680	cis-1,3-Dichloropropylene	µg/L		< 6.50	0.00 - 6.50	Not Reported						
4685	trans-1,3-Dichloropropylene	µg/L		< 6.50	0.00 - 6.50	Not Reported						
4765	Ethylbenzene	µg/L		29.1	20.4 - 37.8	Not Reported				28.0	2.98	
4835	Hexachlorobutadiene	µg/L		55.4	5.54 - 70.1	Not Reported				49.6	12.1	
4840	Hexachloroethane	µg/L		< 3.30	0.00 - 3.30	Not Reported						
4860	2-Hexanone	µg/L		< 4.40	0.00 - 4.40	Not Reported						
4900	Isopropylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4910	4-Isopropyltoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4975	Methylene chloride	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4995	4-Methyl-2-pentanone (MIBK)	µg/L		< 2.00	0.00 - 2.00	Not Reported						
5005	Naphthalene	µg/L		26.0	11.6 - 37.0	Not Reported				26.1	3.76	
5015	Nitrobenzene	µg/L		102	33.3 - 121	Not Reported				98.3	6.86	
5090	n-Propylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5100	Styrene	µg/L		47.6	30.9 - 64.3	Not Reported				47.6	4.40	
5105	1,1,1,2-Tetrachloroethane	µg/L		31.0	20.2 - 41.9	Not Reported				31.3	2.48	
5110	1,1,2,2-Tetrachloroethane	µg/L		39.4	25.6 - 53.2	Not Reported				40.4	2.66	
5115	Tetrachloroethylene	µg/L		29.3	15.6 - 38.6	Not Reported				26.9	4.14	
5140	Toluene	µg/L		58.2	40.7 - 75.7	Not Reported				57.0	5.08	
5150	1,2,3-Trichlorobenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

5155	1,2,4-Trichlorobenzene	µg/L		24.0	8.55 - 32.8	Not Reported				22.7	3.28	
5160	1,1,1-Trichloroethane	µg/L		54.8	32.9 - 76.7	Not Reported				53.5	7.07	
5165	1,1,2-Trichloroethane	µg/L		22.1	15.5 - 28.7	Not Reported				22.0	1.42	
5170	Trichloroethylene	µg/L		55.7	35.4 - 72.8	Not Reported				53.6	5.64	
5175	Trichlorofluoromethane	µg/L		30.9	12.4 - 49.4	Not Reported				32.1	6.71	
5180	1,2,3-Trichloropropane (TCP)	µg/L		39.9	16.5 - 61.3	Not Reported				40.3	7.27	
5210	1,2,4-Trimethylbenzene	µg/L		49.2	32.0 - 66.4	Not Reported				46.6	7.24	
5215	1,3,5-Trimethylbenzene	µg/L		44.9	29.2 - 60.6	Not Reported				41.8	6.92	
5225	Vinyl acetate	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5235	Vinyl chloride	µg/L		< 8.00	0.00 - 8.00	Not Reported						
5240	m&p-Xylene	µg/L		52.1	31.3 - 72.9	Not Reported				50.4	5.79	
5250	o-Xylene	µg/L		41.6	25.0 - 58.2	Not Reported				41.0	4.31	
5260	Xylenes, total	µg/L		93.7	56.2 - 131	Not Reported				91.7	10.3	



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WP Volatiles (cat# 830)

4315	Acetone	µg/L		100	26.1 - 158	Not Reported				87.0	26.0	
4320	Acetonitrile	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4325	Acrolein	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4340	Acrylonitrile	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4375	Benzene	µg/L		55.5	38.8 - 72.2	Not Reported				55.5	5.13	
4385	Bromobenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4390	Bromochloromethane	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4395	Bromodichloromethane	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4400	Bromoform	µg/L		26.8	16.1 - 37.5	Not Reported				26.8	2.78	
4950	Bromomethane	µg/L		< 8.00	0.00 - 8.00	Not Reported						
4410	2-Butanone (MEK)	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4435	n-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4440	sec-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4445	tert-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5000	tert-Butyl methyl ether (MTBE)	µg/L		44.0	29.1 - 60.3	Not Reported				43.6	4.07	
4450	Carbon disulfide	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4455	Carbon tetrachloride	µg/L		< 7.70	0.00 - 7.70	Not Reported						
4475	Chlorobenzene	µg/L		51.1	35.8 - 66.4	Not Reported				50.6	3.95	
4575	Chlorodibromomethane	µg/L		34.7	20.8 - 48.6	Not Reported				33.5	3.28	
4485	Chloroethane	µg/L		< 8.00	0.00 - 8.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

4500	2-Chloroethylvinylether	µg/L	< 0.200	< 5.00	0.00 - 5.00	Acceptable	EPA 8260C 2006	5/13/2014				BERA_G
4505	Chloroform	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4960	Chloromethane	µg/L		21.2	8.48 - 33.9	Not Reported				22.5	4.30	
4535	2-Chlorotoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4540	4-Chlorotoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/L	< 0.500	< 9.00	0.00 - 9.00	Acceptable	EPA 8260C 2006	5/12/2014				BERA_G
4585	1,2-Dibromoethane (EDB)	µg/L	17.4	16.0	10.4 - 21.6	Acceptable	EPA 8260C 2006	5/12/2014	1.32	16.0	1.10	BERA_G
4595	Dibromomethane	µg/L		33.9	22.0 - 45.8	Not Reported				34.2	2.89	
4610	1,2-Dichlorobenzene	µg/L		48.5	34.0 - 63.0	Not Reported				47.3	4.50	
4615	1,3-Dichlorobenzene	µg/L		29.6	20.7 - 38.5	Not Reported				28.9	2.85	
4620	1,4-Dichlorobenzene	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4625	Dichlorodifluoromethane (Freon 12)	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4630	1,1-Dichloroethane	µg/L		37.5	23.8 - 51.5	Not Reported				37.4	3.87	
4635	1,2-Dichloroethane	µg/L		23.8	16.9 - 32.7	Not Reported				24.2	2.28	
4640	1,1-Dichloroethylene	µg/L		22.6	13.4 - 33.3	Not Reported				23.7	3.73	
4645	cis-1,2-Dichloroethylene	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4700	trans-1,2-Dichloroethylene	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4660	1,3-Dichloropropane	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4665	2,2-Dichloropropane	µg/L		< 5.00	0.00 - 5.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

4655	1,2-Dichloropropane	µg/L	27.5	25.5	17.8 - 33.2	Acceptable	EPA 8260C 2006	5/12/2014	0.969	25.5	2.06	BERA_G
4670	1,1-Dichloropropene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4680	cis-1,3-Dichloropropylene	µg/L	< 0.500	< 6.50	0.00 - 6.50	Acceptable	EPA 8260C 2006	5/12/2014				BERA_G
4685	trans-1,3-Dichloropropylene	µg/L	< 0.500	< 6.50	0.00 - 6.50	Acceptable	EPA 8260C 2006	5/12/2014				BERA_G
4765	Ethylbenzene	µg/L		29.1	20.4 - 37.8	Not Reported				28.0	2.98	
4835	Hexachlorobutadiene	µg/L		55.4	5.54 - 70.1	Not Reported				49.6	12.1	
4840	Hexachloroethane	µg/L		< 3.30	0.00 - 3.30	Not Reported						
4860	2-Hexanone	µg/L		< 4.40	0.00 - 4.40	Not Reported						
4900	Isopropylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4910	4-Isopropyltoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4975	Methylene chloride	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4995	4-Methyl-2-pentanone (MIBK)	µg/L		< 2.00	0.00 - 2.00	Not Reported						
5005	Naphthalene	µg/L		26.0	11.6 - 37.0	Not Reported				26.1	3.76	
5015	Nitrobenzene	µg/L		102	33.3 - 121	Not Reported				98.3	6.86	
5090	n-Propylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5100	Styrene	µg/L		47.6	30.9 - 64.3	Not Reported				47.6	4.40	
5105	1,1,1,2-Tetrachloroethane	µg/L		31.0	20.2 - 41.9	Not Reported				31.3	2.48	
5110	1,1,2,2-Tetrachloroethane	µg/L		39.4	25.6 - 53.2	Not Reported				40.4	2.66	
5115	Tetrachloroethylene	µg/L		29.3	15.6 - 38.6	Not Reported				26.9	4.14	
5140	Toluene	µg/L		58.2	40.7 - 75.7	Not Reported				57.0	5.08	
5150	1,2,3-Trichlorobenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

5155	1,2,4-Trichlorobenzene	µg/L		24.0	8.55 - 32.8	Not Reported				22.7	3.28	
5160	1,1,1-Trichloroethane	µg/L		54.8	32.9 - 76.7	Not Reported				53.5	7.07	
5165	1,1,2-Trichloroethane	µg/L		22.1	15.5 - 28.7	Not Reported				22.0	1.42	
5170	Trichloroethylene	µg/L		55.7	35.4 - 72.8	Not Reported				53.6	5.64	
5175	Trichlorofluoromethane	µg/L		30.9	12.4 - 49.4	Not Reported				32.1	6.71	
5180	1,2,3-Trichloropropane (TCP)	µg/L	41.7	39.9	16.5 - 61.3	Acceptable	EPA 8260C 2006	5/12/2014	0.189	40.3	7.27	BERA_G
5210	1,2,4-Trimethylbenzene	µg/L		49.2	32.0 - 66.4	Not Reported				46.6	7.24	
5215	1,3,5-Trimethylbenzene	µg/L		44.9	29.2 - 60.6	Not Reported				41.8	6.92	
5225	Vinyl acetate	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5235	Vinyl chloride	µg/L		< 8.00	0.00 - 8.00	Not Reported						
5240	m&p-Xylene	µg/L		52.1	31.3 - 72.9	Not Reported				50.4	5.79	
5250	o-Xylene	µg/L		41.6	25.0 - 58.2	Not Reported				41.0	4.31	
5260	Xylenes, total	µg/L		93.7	56.2 - 131	Not Reported				91.7	10.3	



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WP Volatiles (cat# 830)

4315	Acetone	µg/L	35.0	100	26.1 - 158	Acceptable	EPA 8260C 2006	5/12/2014	-2.00	87.0	26.0	BOOESHAG_F
4320	Acetonitrile	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4325	Acrolein	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4340	Acrylonitrile	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4375	Benzene	µg/L	52.5	55.5	38.8 - 72.2	Acceptable	EPA 8260C 2006	5/12/2014	-0.580	55.5	5.13	BOOESHAG_F
4385	Bromobenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4390	Bromochloromethane	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4395	Bromodichloromethane	µg/L	< 0.200	< 6.00	0.00 - 6.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4400	Bromoform	µg/L	26.2	26.8	16.1 - 37.5	Acceptable	EPA 8260C 2006	5/12/2014	-0.218	26.8	2.78	BOOESHAG_F
4950	Bromomethane	µg/L	< 0.500	< 8.00	0.00 - 8.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4410	2-Butanone (MEK)	µg/L	< 5.00	< 5.00	0.00 - 5.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4435	n-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4440	sec-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4445	tert-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5000	tert-Butyl methyl ether (MTBE)	µg/L	41.8	44.0	29.1 - 60.3	Acceptable	EPA 8260C 2006	5/12/2014	-0.434	43.6	4.07	BOOESHAG_F
4450	Carbon disulfide	µg/L	< 0.500	< 5.00	0.00 - 5.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4455	Carbon tetrachloride	µg/L	< 0.200	< 7.70	0.00 - 7.70	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4475	Chlorobenzene	µg/L	49.0	51.1	35.8 - 66.4	Acceptable	EPA 8260C 2006	5/12/2014	-0.400	50.6	3.95	BOOESHAG_F



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WP Volatiles (cat# 830) (Continued)

4575	Chlorodibromomethane	µg/L	32.7	34.7	20.8 - 48.6	Acceptable	EPA 8260C 2006	5/12/2014	-0.258	33.5	3.28	BOOESHAG_F
4485	Chloroethane	µg/L	< 0.500	< 8.00	0.00 - 8.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4500	2-Chloroethylvinylether	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4505	Chloroform	µg/L	< 0.200	< 7.00	0.00 - 7.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4960	Chloromethane	µg/L	23.0	21.2	8.48 - 33.9	Acceptable	EPA 8260C 2006	5/12/2014	0.128	22.5	4.30	BOOESHAG_F
4535	2-Chlorotoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4540	4-Chlorotoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/L		< 9.00	0.00 - 9.00	Not Reported						
4585	1,2-Dibromoethane (EDB)	µg/L		16.0	10.4 - 21.6	Not Reported				16.0	1.10	
4595	Dibromomethane	µg/L		33.9	22.0 - 45.8	Not Reported				34.2	2.89	
4610	1,2-Dichlorobenzene	µg/L	44.1	48.5	34.0 - 63.0	Acceptable	EPA 8260C 2006	5/12/2014	-0.707	47.3	4.50	BOOESHAG_F
4615	1,3-Dichlorobenzene	µg/L	28.7	29.6	20.7 - 38.5	Acceptable	EPA 8260C 2006	5/12/2014	-0.0609	28.9	2.85	BOOESHAG_F
4620	1,4-Dichlorobenzene	µg/L	< 0.500	< 7.00	0.00 - 7.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4625	Dichlorodifluoromethane (Freon 12)	µg/L	< 0.200	< 5.00	0.00 - 5.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4630	1,1-Dichloroethane	µg/L	35.7	37.5	23.8 - 51.5	Acceptable	EPA 8260C 2006	5/12/2014	-0.443	37.4	3.87	BOOESHAG_F
4635	1,2-Dichloroethane	µg/L	22.4	23.8	16.9 - 32.7	Acceptable	EPA 8260C 2006	5/12/2014	-0.787	24.2	2.28	BOOESHAG_F
4640	1,1-Dichloroethylene	µg/L	22.8	22.6	13.4 - 33.3	Acceptable	EPA 8260C 2006	5/12/2014	-0.233	23.7	3.73	BOOESHAG_F
4645	cis-1,2-Dichloroethylene	µg/L	< 0.200	< 7.00	0.00 - 7.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4655	1,2-Dichloropropane	µg/L		25.5	17.8 - 33.2	Not Reported				25.5	2.06	
4660	1,3-Dichloropropane	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4665	2,2-Dichloropropane	µg/L		< 5.00	0.00 - 5.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

4700	trans-1,2-Dichloroethylene	µg/L	< 0.200	< 6.00	0.00 - 6.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4670	1,1-Dichloropropene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4680	cis-1,3-Dichloropropylene	µg/L		< 6.50	0.00 - 6.50	Not Reported						
4685	trans-1,3-Dichloropropylene	µg/L		< 6.50	0.00 - 6.50	Not Reported						
4765	Ethylbenzene	µg/L	27.1	29.1	20.4 - 37.8	Acceptable	EPA 8260C 2006	5/12/2014	-0.293	28.0	2.98	BOOESHAG_F
4835	Hexachlorobutadiene	µg/L		55.4	5.54 - 70.1	Not Reported				49.6	12.1	
4840	Hexachloroethane	µg/L		< 3.30	0.00 - 3.30	Not Reported						
4860	2-Hexanone	µg/L	< 4.40	< 4.40	0.00 - 4.40	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4900	Isopropylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4910	4-Isopropyltoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4975	Methylene chloride	µg/L	< 1.00	< 6.00	0.00 - 6.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
4995	4-Methyl-2-pentanone (MIBK)	µg/L	< 2.00	< 2.00	0.00 - 2.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
5005	Naphthalene	µg/L		26.0	11.6 - 37.0	Not Reported				26.1	3.76	
5015	Nitrobenzene	µg/L		102	33.3 - 121	Not Reported				98.3	6.86	
5090	n-Propylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5105	1,1,1,2-Tetrachloroethane	µg/L		31.0	20.2 - 41.9	Not Reported				31.3	2.48	
5150	1,2,3-Trichlorobenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

5100	Styrene	µg/L	46.8	47.6	30.9 - 64.3	Acceptable	EPA 8260C 2006	5/12/2014	-0.185	47.6	4.40	BOOESHAG_F
5110	1,1,2,2-Tetrachloroethane	µg/L	40.9	39.4	25.6 - 53.2	Acceptable	EPA 8260C 2006	5/12/2014	0.177	40.4	2.66	BOOESHAG_F
5115	Tetrachloroethylene	µg/L	28.5	29.3	15.6 - 38.6	Acceptable	EPA 8260C 2006	5/12/2014	0.393	26.9	4.14	BOOESHAG_F
5140	Toluene	µg/L	56.1	58.2	40.7 - 75.7	Acceptable	EPA 8260C 2006	5/12/2014	-0.184	57.0	5.08	BOOESHAG_F
5155	1,2,4-Trichlorobenzene	µg/L		24.0	8.55 - 32.8	Not Reported				22.7	3.28	
5160	1,1,1-Trichloroethane	µg/L	53.3	54.8	32.9 - 76.7	Acceptable	EPA 8260C 2006	5/12/2014	-0.0289	53.5	7.07	BOOESHAG_F
5165	1,1,2-Trichloroethane	µg/L	21.7	22.1	15.5 - 28.7	Acceptable	EPA 8260C 2006	5/12/2014	-0.243	22.0	1.42	BOOESHAG_F
5170	Trichloroethylene	µg/L	53.4	55.7	35.4 - 72.8	Acceptable	EPA 8260C 2006	5/12/2014	-0.0412	53.6	5.64	BOOESHAG_F
5175	Trichlorofluoromethane	µg/L	36.7	30.9	12.4 - 49.4	Acceptable	EPA 8260C 2006	5/12/2014	0.689	32.1	6.71	BOOESHAG_F
5180	1,2,3-Trichloropropane (TCP)	µg/L		39.9	16.5 - 61.3	Not Reported				40.3	7.27	
5210	1,2,4-Trimethylbenzene	µg/L		49.2	32.0 - 66.4	Not Reported				46.6	7.24	
5215	1,3,5-Trimethylbenzene	µg/L		44.9	29.2 - 60.6	Not Reported				41.8	6.92	
5225	Vinyl acetate	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5235	Vinyl chloride	µg/L	< 0.200	< 8.00	0.00 - 8.00	Acceptable	EPA 8260C 2006	5/12/2014				BOOESHAG_F
5240	m&p-Xylene	µg/L	49.7	52.1	31.3 - 72.9	Acceptable	EPA 8260C 2006	5/12/2014	-0.113	50.4	5.79	BOOESHAG_F
5250	o-Xylene	µg/L	39.5	41.6	25.0 - 58.2	Acceptable	EPA 8260C 2006	5/12/2014	-0.340	41.0	4.31	BOOESHAG_F

WP Volatiles (cat# 830) (Continued)

5260	Xylenes, total	µg/L	89.2	93.7	56.2 - 131	Acceptable	EPA 8260C 2006	5/12/2014	-0.243	91.7	10.3	BOOESHAG_F
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WP Volatiles (cat# 830)

4315	Acetone	µg/L		100	26.1 - 158	Not Reported				87.0	26.0	
4320	Acetonitrile	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4325	Acrolein	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4340	Acrylonitrile	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4375	Benzene	µg/L		55.5	38.8 - 72.2	Not Reported				55.5	5.13	
4385	Bromobenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4390	Bromochloromethane	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4395	Bromodichloromethane	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4400	Bromoform	µg/L		26.8	16.1 - 37.5	Not Reported				26.8	2.78	
4950	Bromomethane	µg/L		< 8.00	0.00 - 8.00	Not Reported						
4410	2-Butanone (MEK)	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4435	n-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4440	sec-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4445	tert-Butylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5000	tert-Butyl methyl ether (MTBE)	µg/L		44.0	29.1 - 60.3	Not Reported				43.6	4.07	
4450	Carbon disulfide	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4455	Carbon tetrachloride	µg/L		< 7.70	0.00 - 7.70	Not Reported						
4475	Chlorobenzene	µg/L		51.1	35.8 - 66.4	Not Reported				50.6	3.95	
4575	Chlorodibromomethane	µg/L		34.7	20.8 - 48.6	Not Reported				33.5	3.28	
4485	Chloroethane	µg/L		< 8.00	0.00 - 8.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

4500	2-Chloroethylvinylether	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4505	Chloroform	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4960	Chloromethane	µg/L		21.2	8.48 - 33.9	Not Reported				22.5	4.30	
4535	2-Chlorotoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4540	4-Chlorotoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/L	< 0.010	< 9.00	0.00 - 9.00	Acceptable	EPA 504.1	5/5/2014				NAGAR_V
4585	1,2-Dibromoethane (EDB)	µg/L	19.6	16.0	10.4 - 21.6	Acceptable	EPA 504.1	5/5/2014	3.31	16.0	1.10	NAGAR_V
4595	Dibromomethane	µg/L		33.9	22.0 - 45.8	Not Reported				34.2	2.89	
4610	1,2-Dichlorobenzene	µg/L		48.5	34.0 - 63.0	Not Reported				47.3	4.50	
4615	1,3-Dichlorobenzene	µg/L		29.6	20.7 - 38.5	Not Reported				28.9	2.85	
4620	1,4-Dichlorobenzene	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4625	Dichlorodifluoromethane (Freon 12)	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4630	1,1-Dichloroethane	µg/L		37.5	23.8 - 51.5	Not Reported				37.4	3.87	
4635	1,2-Dichloroethane	µg/L		23.8	16.9 - 32.7	Not Reported				24.2	2.28	
4640	1,1-Dichloroethylene	µg/L		22.6	13.4 - 33.3	Not Reported				23.7	3.73	
4645	cis-1,2-Dichloroethylene	µg/L		< 7.00	0.00 - 7.00	Not Reported						
4700	trans-1,2-Dichloroethylene	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4655	1,2-Dichloropropane	µg/L		25.5	17.8 - 33.2	Not Reported				25.5	2.06	
4660	1,3-Dichloropropane	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4665	2,2-Dichloropropane	µg/L		< 5.00	0.00 - 5.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

4670	1,1-Dichloropropene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4680	cis-1,3-Dichloropropylene	µg/L		< 6.50	0.00 - 6.50	Not Reported						
4685	trans-1,3-Dichloropropylene	µg/L		< 6.50	0.00 - 6.50	Not Reported						
4765	Ethylbenzene	µg/L		29.1	20.4 - 37.8	Not Reported				28.0	2.98	
4835	Hexachlorobutadiene	µg/L		55.4	5.54 - 70.1	Not Reported				49.6	12.1	
4840	Hexachloroethane	µg/L		< 3.30	0.00 - 3.30	Not Reported						
4860	2-Hexanone	µg/L		< 4.40	0.00 - 4.40	Not Reported						
4900	Isopropylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4910	4-Isopropyltoluene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
4975	Methylene chloride	µg/L		< 6.00	0.00 - 6.00	Not Reported						
4995	4-Methyl-2-pentanone (MIBK)	µg/L		< 2.00	0.00 - 2.00	Not Reported						
5005	Naphthalene	µg/L		26.0	11.6 - 37.0	Not Reported				26.1	3.76	
5015	Nitrobenzene	µg/L		102	33.3 - 121	Not Reported				98.3	6.86	
5090	n-Propylbenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5100	Styrene	µg/L		47.6	30.9 - 64.3	Not Reported				47.6	4.40	
5105	1,1,1,2-Tetrachloroethane	µg/L		31.0	20.2 - 41.9	Not Reported				31.3	2.48	
5110	1,1,2,2-Tetrachloroethane	µg/L		39.4	25.6 - 53.2	Not Reported				40.4	2.66	
5115	Tetrachloroethylene	µg/L		29.3	15.6 - 38.6	Not Reported				26.9	4.14	
5140	Toluene	µg/L		58.2	40.7 - 75.7	Not Reported				57.0	5.08	
5150	1,2,3-Trichlorobenzene	µg/L		< 5.00	0.00 - 5.00	Not Reported						



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WP Volatiles (cat# 830) (Continued)

5155	1,2,4-Trichlorobenzene	µg/L		24.0	8.55 - 32.8	Not Reported				22.7	3.28	
5160	1,1,1-Trichloroethane	µg/L		54.8	32.9 - 76.7	Not Reported				53.5	7.07	
5165	1,1,2-Trichloroethane	µg/L		22.1	15.5 - 28.7	Not Reported				22.0	1.42	
5170	Trichloroethylene	µg/L		55.7	35.4 - 72.8	Not Reported				53.6	5.64	
5175	Trichlorofluoromethane	µg/L		30.9	12.4 - 49.4	Not Reported				32.1	6.71	
5180	1,2,3-Trichloropropane (TCP)	µg/L		39.9	16.5 - 61.3	Not Reported				40.3	7.27	
5210	1,2,4-Trimethylbenzene	µg/L		49.2	32.0 - 66.4	Not Reported				46.6	7.24	
5215	1,3,5-Trimethylbenzene	µg/L		44.9	29.2 - 60.6	Not Reported				41.8	6.92	
5225	Vinyl acetate	µg/L		< 5.00	0.00 - 5.00	Not Reported						
5235	Vinyl chloride	µg/L		< 8.00	0.00 - 8.00	Not Reported						
5240	m&p-Xylene	µg/L		52.1	31.3 - 72.9	Not Reported				50.4	5.79	
5250	o-Xylene	µg/L		41.6	25.0 - 58.2	Not Reported				41.0	4.31	
5260	Xylenes, total	µg/L		93.7	56.2 - 131	Not Reported				91.7	10.3	



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WP Chlorinated Acid Herbicides (cat# 829)

8505	Acifluorfen	µg/L	2.57	2.69	0.377 - 3.96	Acceptable	EPA 8321B	5/20/2014	0.248	2.32	0.998	REDDY_S
8530	Bentazon	µg/L	4.92	5.39	0.539 - 9.80	Acceptable	EPA 8321B	5/20/2014	0.275	4.62	1.08	REDDY_S
8540	Chloramben	µg/L		4.18	0.418 - 6.36	Not Reported				2.82	1.91	
8545	2,4-D	µg/L	2.42	2.99	0.299 - 4.82	Acceptable	EPA 8321B	5/20/2014	-0.103	2.50	0.757	REDDY_S
8560	2,4-DB	µg/L	3.13	4.31	0.431 - 7.33	Acceptable	EPA 8321B	5/20/2014	-1.05	3.93	0.760	REDDY_S
8550	Dacthal diacid (DCPA)	µg/L		9.72	1.23 - 13.9	Not Reported				7.73	0.924	
8555	Dalapon	µg/L		6.46	0.646 - 10.2	Not Reported				4.35	1.67	
8595	Dicamba	µg/L	5.84	7.20	1.70 - 10.2	Acceptable	EPA 8321B	5/20/2014	-0.0647	5.88	0.608	REDDY_S
8600	3,5-Dichlorobenzoic acid	µg/L		7.96	1.67 - 12.0	Not Reported				6.71	0.781	
8605	Dichlorprop	µg/L	4.00	4.66	0.798 - 7.00	Acceptable	EPA 8321B	5/20/2014	0.0830	3.95	0.612	REDDY_S
8620	Dinoseb	µg/L	3.20	4.64	0.464 - 7.00	Acceptable	EPA 8321B	5/20/2014	-0.410	3.70	1.22	REDDY_S
7775	MCPA	µg/L	< 0.020	< 10.0	0.00 - 10.0	Acceptable	EPA 8321B	5/20/2014				REDDY_S
7780	MCPP	µg/L	< 0.020	< 10.0	0.00 - 10.0	Acceptable	EPA 8321B	5/20/2014				REDDY_S
6500	4-Nitrophenol	µg/L		5.41	0.541 - 8.31	Not Reported				3.64	0.986	
6605	Pentachlorophenol	µg/L		3.32	0.427 - 5.01	Not Reported				2.31	0.289	
8645	Picloram	µg/L	6.76	7.06	0.706 - 11.4	Acceptable	EPA 8321B	5/20/2014	1.07	5.53	1.16	REDDY_S
8655	2,4,5-T	µg/L	7.16	9.20	2.11 - 13.1	Acceptable	EPA 8321B	5/20/2014	-0.0860	7.28	1.43	REDDY_S
8650	2,4,5-TP (Silvex)	µg/L	4.76	5.57	1.32 - 8.28	Acceptable	EPA 8321B	5/20/2014	-0.0815	4.83	0.823	REDDY_S



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WP PCBs in Water (cat# 832S)

8880	Aroclor 1016	µg/L	< 0.020	< 0.800	0.00 - 0.800	Acceptable	EPA 8082A	4/30/2014				NAGAR_V
8885	Aroclor 1221	µg/L	< 0.020	< 0.800	0.00 - 0.800	Acceptable	EPA 8082A	4/30/2014				NAGAR_V
8890	Aroclor 1232	µg/L	< 0.020	< 0.800	0.00 - 0.800	Acceptable	EPA 8082A	4/30/2014				NAGAR_V
8895	Aroclor 1242	µg/L	< 0.020	< 0.800	0.00 - 0.800	Acceptable	EPA 8082A	4/30/2014				NAGAR_V
8900	Aroclor 1248	µg/L	< 0.020	< 0.800	0.00 - 0.800	Acceptable	EPA 8082A	4/30/2014				NAGAR_V
8905	Aroclor 1254	µg/L	< 0.020	< 0.800	0.00 - 0.800	Acceptable	EPA 8082A	4/30/2014				NAGAR_V
8910	Aroclor 1260	µg/L	8.03	7.79	2.85 - 10.5	Acceptable	EPA 8082A	4/30/2014	1.01	6.66	1.36	NAGAR_V

WP PCBs in Oil (cat# 835S)

8880	Aroclor 1016	mg/kg	< 0.100	< 1.70	0.00 - 1.70	Acceptable	EPA 8082A	4/24/2014				NAGAR_V
8895	Aroclor 1242	mg/kg	17.6	26.6	3.95 - 37.8	Acceptable	EPA 8082A	4/24/2014	-0.941	24.4	7.21	NAGAR_V
8905	Aroclor 1254	mg/kg	< 0.150	< 1.60	0.00 - 1.60	Acceptable	EPA 8082A	4/24/2014				NAGAR_V
8910	Aroclor 1260	mg/kg	< 0.100	< 2.40	0.00 - 2.40	Acceptable	EPA 8082A	4/24/2014				NAGAR_V

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WP Base/Neutrals (cat# 833)

5500	Acenaphthene	µg/L	12.2	14.0	5.36 - 18.0	Acceptable	EPA 8270D 3 2007	4/30/2014	0.565	10.9	2.35	GHAFFARI_M
5505	Acenaphthylene	µg/L	< 0.200	< 2.90	0.00 - 2.90	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/L	< 1.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5545	Aniline	µg/L	< 1.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5555	Anthracene	µg/L	15.3	17.4	7.08 - 24.3	Acceptable	EPA 8270D 3 2007	4/30/2014	0.644	13.9	2.19	GHAFFARI_M
5595	Benzidine	µg/L	< 100	< 200	0.00 - 200	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5575	Benzo(a)anthracene	µg/L	29.7	28.0	12.5 - 35.6	Acceptable	EPA 8270D 3 2007	4/30/2014	1.30	25.5	3.24	GHAFFARI_M
5585	Benzo(b)fluoranthene	µg/L	23.8	24.2	9.11 - 31.5	Acceptable	EPA 8270D 3 2007	4/30/2014	1.36	20.3	2.61	GHAFFARI_M
5600	Benzo(k)fluoranthene	µg/L	30.9	29.6	6.42 - 46.2	Acceptable	EPA 8270D 3 2007	4/30/2014	1.19	26.5	3.70	GHAFFARI_M
5590	Benzo(g,h,i)perylene	µg/L	14.2	12.5	6.00 - 17.8	Acceptable	EPA 8270D 3 2007	4/30/2014	1.50	11.2	2.03	GHAFFARI_M
5580	Benzo(a)pyrene	µg/L	13.3	14.4	4.05 - 19.5	Acceptable	EPA 8270D 3 2007	4/30/2014	1.14	11.3	1.76	GHAFFARI_M
5630	Benzyl alcohol	µg/L	< 1.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5660	4-Bromophenyl-phenylether	µg/L	161	165	68.1 - 205	Acceptable	EPA 8270D 3 2007	4/30/2014	1.16	134	23.1	GHAFFARI_M
5670	Butylbenzylphthalate	µg/L	< 1.00	< 13.4	0.00 - 13.4	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5680	Carbazole	µg/L	< 1.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5745	4-Chloroaniline	µg/L		< 10.0	0.00 - 10.0	Not Reported						
5760	bis(2-Chloroethoxy)methane	µg/L	49.8	58.7	19.5 - 70.9	Acceptable	EPA 8270D 3 2007	4/30/2014	1.51	40.3	6.27	GHAFFARI_M
5765	bis(2-Chloroethyl)ether	µg/L	81.5	95.9	24.9 - 116	Acceptable	EPA 8270D 3 2007	4/30/2014	0.820	70.6	13.3	GHAFFARI_M
5780	bis(2-Chloroisopropyl)ether	µg/L	35.3	36.7	5.37 - 51.5	Acceptable	EPA 8270D 3 2007	4/30/2014	0.982	27.9	7.51	GHAFFARI_M
5790	1-Chloronaphthalene	µg/L		< 10.0	0.00 - 10.0	Not Reported						



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

5795	2-Chloronaphthalene	µg/L	156	163	44.5 - 192	Acceptable	EPA 8270D 3 2007	4/30/2014	1.55	112	28.2	GHAFFARI_M
5825	4-Chlorophenyl-phenylether	µg/L	< 2.00	< 9.90	0.00 - 9.90	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5855	Chrysene	µg/L	21.5	19.7	9.82 - 27.1	Acceptable	EPA 8270D 3 2007	4/30/2014	1.09	18.7	2.56	GHAFFARI_M
5895	Dibenz(a,h)anthracene	µg/L	28.4	25.1	8.78 - 36.6	Acceptable	EPA 8270D 3 2007	4/30/2014	1.75	21.9	3.68	GHAFFARI_M
5905	Dibenzofuran	µg/L	< 1.00	< 11.3	0.00 - 11.3	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5925	Di-n-butylphthalate	µg/L	136	120	42.4 - 155	Acceptable	EPA 8270D 3 2007	4/30/2014	1.43	108	19.8	GHAFFARI_M
4610	1,2-Dichlorobenzene	µg/L		86.1	9.76 - 101	Not Reported				51.6	15.5	
4615	1,3-Dichlorobenzene	µg/L		114	11.4 - 133	Not Reported				64.7	21.1	
4620	1,4-Dichlorobenzene	µg/L		< 3.70	0.00 - 3.70	Not Reported						
5945	3,3'-Dichlorobenzidine	µg/L	< 40.0	< 5.00	0.00 - 5.00	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6070	Diethylphthalate	µg/L	146	139	26.2 - 189	Acceptable	EPA 8270D 3 2007	4/30/2014	1.49	111	23.2	GHAFFARI_M
6135	Dimethylphthalate	µg/L	< 1.00	< 11.5	0.00 - 11.5	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6185	2,4-Dinitrotoluene	µg/L	82.2	74.0	29.7 - 92.7	Acceptable	EPA 8270D 3 2007	4/30/2014	2.38	63.0	8.05	GHAFFARI_M
6190	2,6-Dinitrotoluene	µg/L	66.0	61.9	25.1 - 74.8	Acceptable	EPA 8270D 3 2007	4/30/2014	1.80	50.6	8.56	GHAFFARI_M
6200	Di-n-octylphthalate	µg/L	109	99.4	29.1 - 139	Acceptable	EPA 8270D 3 2007	4/30/2014	1.58	83.8	15.9	GHAFFARI_M
6065	bis(2-Ethylhexyl)phthalate	µg/L	82.9	67.3	22.3 - 91.5	Acceptable	EPA 8270D 3 2007	4/30/2014	2.29	60.7	9.70	GHAFFARI_M
6265	Fluoranthene	µg/L	77.8	77.3	35.8 - 95.2	Acceptable	EPA 8270D 3 2007	4/30/2014	1.22	67.2	8.63	GHAFFARI_M
6270	Fluorene	µg/L	49.2	47.5	20.2 - 59.7	Acceptable	EPA 8270D 3 2007	4/30/2014	1.64	38.8	6.38	GHAFFARI_M
6275	Hexachlorobenzene	µg/L	< 1.00	< 8.80	0.00 - 8.80	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
4835	Hexachlorobutadiene	µg/L	< 3.00	< 4.30	0.00 - 4.30	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M



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

6285	Hexachlorocyclopentadiene	µg/L	< 3.00	< 5.00	0.00 - 5.00	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
4840	Hexachloroethane	µg/L	< 3.00	< 3.30	0.00 - 3.30	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6315	Indeno(1,2,3-cd)pyrene	µg/L	37.8	38.3	11.6 - 53.0	Acceptable	EPA 8270D 3 2007	4/30/2014	1.07	31.8	5.62	GHAFFARI_M
6320	Isophorone	µg/L	65.7	62.5	22.7 - 78.4	Acceptable	EPA 8270D 3 2007	4/30/2014	1.52	51.8	9.11	GHAFFARI_M
6385	2-Methylnaphthalene	µg/L	40.6	45.6	8.88 - 59.0	Acceptable	EPA 8270D 3 2007	4/30/2014	0.797	34.1	8.15	GHAFFARI_M
5005	Naphthalene	µg/L	54.5	63.3	15.0 - 77.5	Acceptable	EPA 8270D 3 2007	4/30/2014	0.857	45.1	11.0	GHAFFARI_M
6460	2-Nitroaniline	µg/L	< 1.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6465	3-Nitroaniline	µg/L		< 10.0	0.00 - 10.0	Not Reported						
6470	4-Nitroaniline	µg/L		< 10.0	0.00 - 10.0	Not Reported						
5015	Nitrobenzene	µg/L	< 2.00	< 6.20	0.00 - 6.20	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6525	N-Nitrosodiethylamine	µg/L	< 1.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6530	N-Nitrosodimethylamine	µg/L	< 2.00	< 7.50	0.00 - 7.50	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6535	N-Nitrosodiphenylamine	µg/L	< 3.00	< 5.60	0.00 - 5.60	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6545	N-Nitroso-di-n-propylamine	µg/L	161	147	47.9 - 185	Acceptable	EPA 8270D 3 2007	4/30/2014	2.30	113	21.0	GHAFFARI_M
6590	Pentachlorobenzene	µg/L	< 1.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6615	Phenanthrene	µg/L	< 0.200	< 4.70	0.00 - 4.70	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6665	Pyrene	µg/L	29.9	29.2	12.5 - 39.0	Acceptable	EPA 8270D 3 2007	4/30/2014	0.902	26.7	3.57	GHAFFARI_M
5095	Pyridine	µg/L	< 4.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6715	1,2,4,5-Tetrachlorobenzene	µg/L	< 1.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
5155	1,2,4-Trichlorobenzene	µg/L	< 1.00	< 2.00	0.00 - 2.00	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M



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WP Acids (cat# 834)

5610	Benzoic acid	µg/L		< 30.0	0.00 - 30.0	Not Reported						
5700	4-Chloro-3-methylphenol	µg/L	75.2	75.3	28.6 - 93.1	Acceptable	EPA 8270D 3 2007	4/30/2014	0.969	64.0	11.6	GHAFFARI_M
5800	2-Chlorophenol	µg/L	73.9	77.4	22.6 - 93.2	Acceptable	EPA 8270D 3 2007	4/30/2014	1.32	58.7	11.5	GHAFFARI_M
6000	2,4-Dichlorophenol	µg/L	30.8	32.8	12.7 - 41.3	Acceptable	EPA 8270D 3 2007	4/30/2014	1.06	25.9	4.59	GHAFFARI_M
6005	2,6-Dichlorophenol	µg/L	68.8	63.8	21.7 - 81.7	Acceptable	EPA 8270D 3 2007	4/30/2014	1.27	54.9	10.9	GHAFFARI_M
6130	2,4-Dimethylphenol	µg/L	37.4	46.3	13.6 - 58.7	Acceptable	EPA 8270D 3 2007	4/30/2014	0.480	34.0	7.03	GHAFFARI_M
6360	4,6-Dinitro-2-methylphenol	µg/L	77.1	70.1	20.9 - 100	Acceptable	EPA 8270D 3 2007	4/30/2014	1.29	61.6	12.0	GHAFFARI_M
6175	2,4-Dinitrophenol	µg/L	194	180	18.0 - 238	Acceptable	EPA 8270D 3 2007	4/30/2014	1.64	125	41.9	GHAFFARI_M
6400	2-Methylphenol	µg/L	39.7	48.3	11.4 - 59.0	Acceptable	EPA 8270D 3 2007	4/30/2014	0.646	35.2	7.03	GHAFFARI_M
6410	4-Methylphenol	µg/L	107	127	12.7 - 164	Acceptable	EPA 8270D 3 2007	4/30/2014	0.956	84.3	23.7	GHAFFARI_M
6490	2-Nitrophenol	µg/L	51.8	56.4	15.3 - 73.1	Acceptable	EPA 8270D 3 2007	4/30/2014	1.21	43.3	7.04	GHAFFARI_M
6500	4-Nitrophenol	µg/L	21.3	116	11.6 - 157	Acceptable	EPA 8270D 3 2007	4/30/2014	-1.40	56.0	24.8	GHAFFARI_M
6605	Pentachlorophenol	µg/L	89.7	84.4	26.7 - 115	Acceptable	EPA 8270D 3 2007	4/30/2014	1.45	70.0	13.6	GHAFFARI_M
6625	Phenol	µg/L	70.2	190	19.0 - 254	Acceptable	EPA 8270D 3 2007	4/30/2014	-0.569	95.7	44.8	GHAFFARI_M
6735	2,3,4,6-Tetrachlorophenol	µg/L	< 2.00	< 30.0	0.00 - 30.0	Acceptable	EPA 8270D 3 2007	4/30/2014				GHAFFARI_M
6835	2,4,5-Trichlorophenol	µg/L	67.8	68.6	25.2 - 87.2	Acceptable	EPA 8270D 3 2007	4/30/2014	1.33	55.1	9.52	GHAFFARI_M
6840	2,4,6-Trichlorophenol	µg/L	52.2	48.4	18.4 - 59.4	Acceptable	EPA 8270D 3 2007	4/30/2014	1.30	42.7	7.34	GHAFFARI_M



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WP Nitroaromatics & Nitramines (cat# 932)

9306	4-Amino-2,6-dinitrotoluene	µg/L		6.19	3.28 - 8.66	Not Reported				6.12	0.356	
9303	2-Amino-4,6-dinitrotoluene	µg/L		< 1.00	0.00 - 1.00	Not Reported						
6160	1,3-Dinitrobenzene	µg/L	11.6	12.1	5.79 - 17.4	Acceptable	EPA 8270D 3	4/30/2014	-0.0120	11.6	0.832	GHAFFARI_M
6185	2,4-Dinitrotoluene	µg/L		18.3	9.36 - 26.7	Not Reported				16.9	2.01	
6190	2,6-Dinitrotoluene	µg/L		8.79	4.40 - 12.8	Not Reported				8.37	1.28	
9522	HMX	µg/L		9.70	4.80 - 13.8	Not Reported				9.13	0.800	
5015	Nitrobenzene	µg/L		14.3	6.95 - 19.8	Not Reported				12.6	1.68	
9507	2-Nitrotoluene	µg/L		14.5	7.33 - 19.9	Not Reported				13.4	2.67	
9510	3-Nitrotoluene	µg/L		9.75	4.86 - 13.7	Not Reported				9.50	1.71	
9513	4-Nitrotoluene	µg/L		12.5	6.70 - 17.6	Not Reported				12.0	2.18	
9432	RDX	µg/L		1.44	0.752 - 1.93	Not Reported				1.56	0.486	
6415	Tetryl	µg/L		< 1.00	0.00 - 1.00	Not Reported						
6885	1,3,5-Trinitrobenzene	µg/L	13.7	13.6	5.55 - 18.6	Acceptable	EPA 8270D 3	4/30/2014	0.276	13.3	1.56	GHAFFARI_M
9651	2,4,6-Trinitrotoluene	µg/L		14.0	7.45 - 18.6	Not Reported				13.2	1.13	



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WP Low-Level PAHs (cat# 836)

5500	Acenaphthene	µg/L	8.02	7.37	2.52 - 8.97	Acceptable	EPA 8270D 3 2007	4/30/2014	1.42	5.96	1.45	GHAFFARI_M
5505	Acenaphthylene	µg/L	12.1	11.6	5.01 - 13.3	Acceptable	EPA 8270D 3 2007	4/30/2014	1.49	8.79	2.22	GHAFFARI_M
5555	Anthracene	µg/L	1.23	1.21	0.349 - 1.66	Acceptable	EPA 8270D 3 2007	4/30/2014	0.821	1.04	0.231	GHAFFARI_M
5575	Benzo(a)anthracene	µg/L	4.97	4.70	3.21 - 5.22	Acceptable	EPA 8270D 3 2007	4/30/2014	1.98	3.90	0.539	GHAFFARI_M
5585	Benzo(b)fluoranthene	µg/L	3.30	3.45	1.64 - 4.14	Acceptable	EPA 8270D 3 2007	4/30/2014	0.889	2.99	0.352	GHAFFARI_M
5600	Benzo(k)fluoranthene	µg/L	3.39	2.73	1.38 - 3.49	Acceptable	EPA 8270D 3 2007	4/30/2014	3.55	2.28	0.312	GHAFFARI_M
5590	Benzo(g,h,i)perylene	µg/L	2.34	2.28	0.677 - 2.97	Acceptable	EPA 8270D 3 2007	4/30/2014	0.992	1.96	0.387	GHAFFARI_M
5580	Benzo(a)pyrene	µg/L	0.900	0.977	0.418 - 1.26	Acceptable	EPA 8270D 3 2007	4/30/2014	1.55	0.796	0.0672	GHAFFARI_M
5855	Chrysene	µg/L	3.27	3.04	1.69 - 3.74	Acceptable	EPA 8270D 3 2007	4/30/2014	1.24	2.78	0.394	GHAFFARI_M
5895	Dibenz(a,h)anthracene	µg/L	2.70	2.57	0.880 - 3.32	Acceptable	EPA 8270D 3 2007	4/30/2014	1.43	1.97	0.513	GHAFFARI_M
6265	Fluoranthene	µg/L	4.28	3.92	2.09 - 4.67	Acceptable	EPA 8270D 3 2007	4/30/2014	1.76	3.40	0.502	GHAFFARI_M
6270	Fluorene	µg/L	7.09	6.83	2.87 - 7.97	Acceptable	EPA 8270D 3 2007	4/30/2014	1.38	5.35	1.26	GHAFFARI_M
6315	Indeno(1,2,3-cd)pyrene	µg/L	2.31	2.24	0.940 - 2.87	Acceptable	EPA 8270D 3 2007	4/30/2014	1.38	1.95	0.262	GHAFFARI_M
5005	Naphthalene	µg/L	3.21	3.17	0.975 - 3.84	Acceptable	EPA 8270D 3 2007	4/30/2014	0.838	2.60	0.726	GHAFFARI_M
6615	Phenanthrene	µg/L	4.63	4.51	2.26 - 5.31	Acceptable	EPA 8270D 3 2007	4/30/2014	1.35	3.71	0.681	GHAFFARI_M
6665	Pyrene	µg/L	0.895	0.833	0.465 - 1.03	Acceptable	EPA 8270D 3 2007	4/30/2014	1.26	0.767	0.101	GHAFFARI_M



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WP Organochlorine Pesticides (cat# 831)

7025	Aldrin	µg/L	5.12	5.03	1.77 - 6.77	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.51	3.96	0.768	NAGAR_V
7110	alpha-BHC	µg/L	3.21	2.97	1.24 - 4.13	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.63	2.61	0.367	NAGAR_V
7115	beta-BHC	µg/L	6.27	6.02	2.84 - 8.26	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.06	5.53	0.699	NAGAR_V
7105	delta-BHC	µg/L	4.50	4.02	1.69 - 5.78	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.19	3.87	0.529	NAGAR_V
7120	gamma-BHC(Lindane)	µg/L	12.4	11.6	5.13 - 15.9	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.14	11.0	1.27	NAGAR_V
7240	alpha-Chlordane	µg/L	10.8	9.87	4.46 - 13.1	Acceptable	DEPSOP:GC-011-5	4/28/2014	2.27	8.85	0.862	NAGAR_V
7245	gamma-Chlordane	µg/L	7.48	7.06	3.17 - 9.20	Acceptable	DEPSOP:GC-011-5	4/28/2014	2.05	6.21	0.620	NAGAR_V
7355	4,4'-DDD	µg/L	7.43	6.65	3.23 - 9.18	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.83	6.10	0.726	NAGAR_V
7360	4,4'-DDE	µg/L	7.46	6.93	2.99 - 9.34	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.50	6.09	0.912	NAGAR_V
7365	4,4'-DDT	µg/L	5.10	4.69	1.86 - 6.79	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.22	4.46	0.526	NAGAR_V
7470	Dieldrin	µg/L	6.40	5.70	2.89 - 7.58	Acceptable	DEPSOP:GC-011-5	4/28/2014	2.20	5.28	0.511	NAGAR_V
7540	Endrin	µg/L	5.32	4.79	2.10 - 6.84	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.26	4.50	0.651	NAGAR_V
7530	Endrin aldehyde	µg/L	8.93	8.06	2.99 - 11.8	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.49	7.41	1.02	NAGAR_V
7535	Endrin ketone	µg/L	6.20	5.78	3.01 - 8.08	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.30	5.30	0.693	NAGAR_V
7510	Endosulfan I	µg/L	13.1	12.0	4.64 - 16.1	Acceptable	DEPSOP:GC-011-5	4/28/2014	2.00	10.7	1.21	NAGAR_V
7515	Endosulfan II	µg/L	16.6	14.1	5.88 - 19.0	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.82	13.7	1.61	NAGAR_V
7520	Endosulfan sulfate	µg/L	5.18	4.51	2.03 - 6.93	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.44	4.35	0.574	NAGAR_V
7685	Heptachlor	µg/L	5.18	5.25	1.86 - 7.13	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.28	4.35	0.650	NAGAR_V
7690	Heptachlor epoxide (beta)	µg/L	3.57	2.95	1.44 - 3.98	Acceptable	DEPSOP:GC-011-5	4/28/2014	3.78	2.72	0.224	NAGAR_V
7810	Methoxychlor	µg/L	5.11	4.08	1.52 - 6.48	Acceptable	DEPSOP:GC-011-5	4/28/2014	1.56	4.00	0.711	NAGAR_V



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WP Chlordane (cat# 837)

7250	Chlordane, technical	µg/L	11.9	11.0	4.57 - 15.0	Acceptable	DEPSOP:GC-011-5	4/29/2014	0.690	10.6	1.95	NAGAR_V
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WP Toxaphene (cat# 838)

8250	Toxaphene	µg/L	27.2	26.6	5.99 - 40.8	Acceptable	DEPSOP:GC-011-5	4/29/2014	1.08	22.6	4.24	NAGAR_V
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WP Organophosphorous Pesticides (OPP) (cat# 934)

7075	Azinphos-methyl (Guthion)	µg/L	8.04	9.10	0.910 - 15.9	Acceptable	DEPSOP:GC-012-3	4/29/2014	0.546	7.41	1.16	BURGOS_J
7220	Carbophenothion	µg/L		7.18	3.52 - 9.89	Not Reported				6.02	1.22	
7300	Chlorpyrifos	µg/L	5.62	6.94	2.51 - 9.16	Acceptable	DEPSOP:GC-012-3	4/29/2014	0.145	5.50	0.835	BURGOS_J
7395	Demeton-O	µg/L		< 2.00	0.00 - 2.00	Not Reported						
7385	Demeton-S	µg/L		< 2.00	0.00 - 2.00	Not Reported						
7410	Diazinon	µg/L	4.64	5.88	2.21 - 8.85	Acceptable	DEPSOP:GC-012-3	4/29/2014	-0.635	5.43	1.25	BURGOS_J
8610	Dichlorvos (DDVP)	µg/L		< 2.00	0.00 - 2.00	Not Reported						
7475	Dimethoate	µg/L		8.88	1.61 - 12.0	Not Reported				7.08	0.966	
7495	Dioxathion	µg/L		< 2.00	0.00 - 2.00	Not Reported						
8625	Disulfoton	µg/L	7.87	5.88	0.972 - 9.59	Acceptable	DEPSOP:GC-012-3	4/29/2014	1.96	5.12	1.41	BURGOS_J
7565	Ethion	µg/L	9.81	12.6	5.95 - 19.4	Acceptable	DEPSOP:GC-012-3	4/29/2014	-0.436	11.0	2.72	BURGOS_J
7570	Ethoprop	µg/L	16.8	14.9	5.92 - 20.3	Acceptable	DEPSOP:GC-012-3	4/29/2014	2.05	12.0	2.34	BURGOS_J
7955	Ethyl Parathion	µg/L	8.33	10.0	5.50 - 14.5	Acceptable	DEPSOP:GC-012-3	4/29/2014	-0.133	8.53	1.51	BURGOS_J
7580	Famphur	µg/L		9.19	4.32 - 12.4	Not Reported				7.04	0.977	
7640	Fonofos	µg/L	12.4	14.1	5.02 - 22.0	Acceptable	DEPSOP:GC-012-3	4/29/2014	0.647	11.5	1.41	BURGOS_J
7770	Malathion	µg/L	6.08	5.80	0.962 - 9.36	Acceptable	DEPSOP:GC-012-3	4/29/2014	0.688	5.34	1.07	BURGOS_J
7825	Methyl Parathion	µg/L	7.37	8.69	3.18 - 11.7	Acceptable	DEPSOP:GC-012-3	4/29/2014	0.198	7.15	1.10	BURGOS_J
7985	Phorate	µg/L	9.38	9.33	3.63 - 11.7	Acceptable	DEPSOP:GC-012-3	4/29/2014	1.03	8.35	1.00	BURGOS_J
8000	Phosmet	µg/L		< 2.00	0.00 - 2.00	Not Reported						
8110	Ronnel	µg/L		7.09	3.12 - 8.56	Not Reported				5.99	1.01	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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A Waters Company

WP-231 2009 TNI Evaluation Final Complete Report

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

FL01181
S744803
06/02/14
04/14/14 - 05/29/14

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 Organophosphorous Pesticides (OPP) (cat# 934) (Continued)

8200	Stirophos	µg/L		< 2.00	0.00 - 2.00	Not Reported						
8185	Terbufos	µg/L	7.29	7.79	2.09 - 10.2	Acceptable	DEPSOP:GC-012-3	4/29/2014	0.253	7.07	0.860	BURGOS_J



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