Andrew Tintle
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WP-177 Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 10/09/09

Close Date: 11/23/09

Report Issued Date: 12/14/09

December 14, 2009

Andrew Tintle
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Enclosed is your final report for ERA's WP-177 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-177 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-177 WatR™Pollution Proficiency Testing study. If you have any questions, please contact myself, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Sincerely,

Shawn Kassner
Proficiency Testing Manager

Jay R. McBurney
Quality Program Manager

attachments
smk

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

WP-177 Definitions & Study Discussion

Study Dates: 10/09/09 - 11/23/09 **Report Issued: 12/14/09**

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. 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-177 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-177 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.

If you have any questions or concerns regarding your assessment in ERA's WatR™Pollution Proficiency Testing program, please contact Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Study: **WP-177**

ERA Customer Number: **S744803**

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

Inorganic Results

WP-177 Final Complete Report

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EPA ID: **FL01181**
ERA Customer Number: **S744803**
Report Issued: **12/14/09**
Study Dates: **10/09/09 - 11/23/09**

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Minerals (cat# 581)							
0027	Alkalinity as CaCO3	mg/L	49.1	50.4	43.6 - 57.5	Acceptable	SM2320 B-97
0028	Chloride	mg/L	49.8	47.7	40.4 - 55.6	Acceptable	EPA 300.0
0020	Conductivity at 25°C	µmhos/cm	368	367	327 - 407	Acceptable	EPA 120.1
0029	Fluoride	mg/L	1.48	1.49	1.18 - 1.80	Acceptable	SM 4500 F-C-97
0026	Potassium	mg/L	33.5	34.9	28.9 - 41.5	Acceptable	EPA 200.7
0025	Sodium	mg/L	53.5	52.3	44.4 - 60.1	Acceptable	EPA 200.7
0030	Sulfate	mg/L	39.0	39.1	31.7 - 45.5	Acceptable	EPA 300.0
0021	Total Dissolved Solids at 180°C	mg/L	252	252	187 - 317	Acceptable	SM2540 C-97
1950	Total Solids at 105°C	mg/L		263	224 - 299	Not Reported	
WP Hardness (cat# 580)							
0072	Non-Filterable Residue (TSS)	mg/L	78.4	81.6	66.7 - 90.8	Acceptable	SM2540 D-97
0023	Calcium	mg/L	61.8	60.4	54.0 - 68.4	Acceptable	EPA 200.7
0024	Magnesium	mg/L	13.5	13.2	11.2 - 15.1	Acceptable	EPA 200.7
1550	Calcium Hardness as CaCO3	mg/L		151	135 - 171	Not Reported	
0022	Total Hardness as CaCO3	mg/L		205	181 - 233	Not Reported	
WP pH (cat# 577)							
0019	pH	S.U.	8.22	8.24	8.04 - 8.44	Acceptable	SM4500H+ B-00
WP Simple Nutrients (cat# 584)							
0031	Ammonia as N	mg/L	13.1	13.4	9.96 - 16.6	Acceptable	EPA 350.1
1820	Nitrate + Nitrite as N	mg/L	1.13	1.18	0.954 - 1.39	Acceptable	EPA 353.2
0032	Nitrate as N	mg/L	1.20	1.18	0.915 - 1.44	Acceptable	EPA 300.0
0033	ortho-Phosphate as P	mg/L	1.73	1.82	1.46 - 2.20	Acceptable	EPA 365.1
WP Complex Nutrients (cat# 579)							
0034	Total Kjeldahl Nitrogen	mg/L	17.2	17.1	11.3 - 22.0	Acceptable	EPA 351.2
0035	Total phosphorus as P	mg/L	5.73	5.43	4.46 - 6.46	Acceptable	EPA 365.1
WP Nitrite (cat# 888)							
1840	Nitrite as N	mg/L	1.88	1.80	1.50 - 2.10	Acceptable	EPA 353.2
WP Demand (cat# 578)							
0038	BOD	mg/L	53.0	63.9	32.2 - 95.7	Acceptable	SM5210B
0102	CBOD	mg/L	50.0	55.1	24.7 - 85.4	Acceptable	SM5210B
0036	COD	mg/L		103	76.6 - 120	Not Reported	
0037	TOC	mg/L	40.0	40.8	34.0 - 47.1	Acceptable	SM5310 B-00

ACCREDITED Lab Code: 1539-01

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

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Trace Metals (cat# 586)							
0001	Aluminum	µg/L	410	368	276 - 463	Acceptable	EPA 200.7
0016	Antimony	µg/L	766	849	602 - 1020	Acceptable	EPA 200.7
0002	Arsenic	µg/L	318	313	260 - 368	Acceptable	EPA 200.7
1015	Barium	µg/L	372	381	330 - 429	Acceptable	EPA 200.7
0003	Beryllium	µg/L	102	103	86.4 - 116	Acceptable	EPA 200.7
1025	Boron	µg/L	907	861	714 - 1000	Acceptable	EPA 200.7
0004	Cadmium	µg/L	660	685	585 - 777	Acceptable	EPA 200.7
0006	Chromium	µg/L	481	476	414 - 539	Acceptable	EPA 200.7
0005	Cobalt	µg/L	608	603	530 - 676	Acceptable	EPA 200.7
0007	Copper	µg/L	371	357	321 - 393	Acceptable	EPA 200.7
0008	Iron	µg/L	1960	1870	1660 - 2110	Acceptable	EPA 200.7
0012	Lead	µg/L	747	763	667 - 855	Acceptable	EPA 200.7
0010	Manganese	µg/L	264	257	229 - 285	Acceptable	EPA 200.7
0074	Molybdenum	µg/L	304	296	248 - 340	Acceptable	EPA 200.7
0011	Nickel	µg/L	1960	1990	1790 - 2220	Acceptable	EPA 200.7
0013	Selenium	µg/L	1670	1780	1420 - 2060	Acceptable	EPA 200.7
0017	Silver	µg/L	135	144	123 - 165	Acceptable	EPA 200.7
0075	Strontium	µg/L	122	122	104 - 140	Acceptable	EPA 200.7
0018	Thallium	µg/L	925	867	718 - 1030	Acceptable	EPA 200.7
0014	Vanadium	µg/L	1360	1370	1200 - 1530	Acceptable	EPA 200.7
0015	Zinc	µg/L	1340	1360	1170 - 1560	Acceptable	EPA 200.7

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WP Trace Metals (cat# 586)							
0001	Aluminum	µg/L	390	368	276 - 463	Acceptable	EPA 200.8
0016	Antimony	µg/L	813	849	602 - 1020	Acceptable	EPA 200.8
0002	Arsenic	µg/L	320	313	260 - 368	Acceptable	EPA 200.8
1015	Barium	µg/L	375	381	330 - 429	Acceptable	EPA 200.8
0003	Beryllium	µg/L	101	103	86.4 - 116	Acceptable	EPA 200.8
1025	Boron	µg/L		861	714 - 1000	Not Reported	
0004	Cadmium	µg/L	661	685	585 - 777	Acceptable	EPA 200.8
0006	Chromium	µg/L	487	476	414 - 539	Acceptable	EPA 200.8
0005	Cobalt	µg/L	617	603	530 - 676	Acceptable	EPA 200.8
0007	Copper	µg/L	356	357	321 - 393	Acceptable	EPA 200.8
0008	Iron	µg/L		1870	1660 - 2110	Not Reported	
0012	Lead	µg/L	748	763	667 - 855	Acceptable	EPA 200.8
0010	Manganese	µg/L	264	257	229 - 285	Acceptable	EPA 200.8
0074	Molybdenum	µg/L	305	296	248 - 340	Acceptable	EPA 200.8
0011	Nickel	µg/L	1980	1990	1790 - 2220	Acceptable	EPA 200.8
0013	Selenium	µg/L	1700	1780	1420 - 2060	Acceptable	EPA 200.8
0017	Silver	µg/L	136	144	123 - 165	Acceptable	EPA 200.8
0075	Strontium	µg/L		122	104 - 140	Not Reported	
0018	Thallium	µg/L	845	867	718 - 1030	Acceptable	EPA 200.8
0014	Vanadium	µg/L		1370	1200 - 1530	Not Reported	
0015	Zinc	µg/L	1350	1360	1170 - 1560	Acceptable	EPA 200.8
WP Mercury (cat# 574)							
0009	Mercury	µg/L	22.8	25.7	15.8 - 34.6	Acceptable	EPA 245.1
WP Mercury (cat# 574)							
0009	Mercury	µg/L	20.0	25.7	15.8 - 34.6	Acceptable	EPA 1631E
WP Tin & Titanium (cat# 573)							
1175	Tin	µg/L	3990	4000	3150 - 4880	Acceptable	EPA 200.7
0076	Titanium	µg/L	114	113	96.3 - 128	Acceptable	EPA 200.7
WP Color (cat# 882)							
1605	Color	PC units	40.0	30.0	20.0 - 40.0	Acceptable	SM2120B
WP Turbidity (cat# 893)							
2055	Turbidity	NTU	7.19	6.85	5.72 - 7.85	Acceptable	EPA 180.1
WP Total Cyanide (cat# 588)							
0071	Cyanide, total	mg/L	0.369	0.349	0.185 - 0.518	Acceptable	EPA 335.4
WP Silica (cat# 890)							
1990	Silica as SiO2	mg/L	66.5	61.0	45.8 - 76.2	Acceptable	EPA 200.7
WP Sulfide (cat# 891)							
2005	Sulfide	mg/L	4.52	6.22	2.79 - 8.97	Acceptable	SM4500 S2-D-00

ACCREDITED Lab Code: 1539-01

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

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Organic Results

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Chlorinated Acid Herbicides (cat# 829)							
8505	Acifluorfen	µg/L		8.53	1.51 - 12.7	Not Reported	
8530	Bentazon	µg/L		4.10	0.410 - 7.79	Not Reported	
8540	Chloramben	µg/L		4.26	0.426 - 6.25	Not Reported	
8545	2,4-D	µg/L	2.51	2.99	0.299 - 5.08	Acceptable	SOP LC-001-2
8560	2,4-DB	µg/L		0.00		Not Reported	
8550	Dacthal diacid (DCPA)	µg/L		5.91	0.591 - 10.7	Not Reported	
8555	Dalapon	µg/L		8.53	0.853 - 14.2	Not Reported	
8595	Dicamba	µg/L	2.05	2.29	0.229 - 3.55	Acceptable	SOP LC-001-2
8600	3,5-Dichlorobenzoic acid	µg/L		8.65	2.28 - 12.8	Not Reported	
8605	Dichlorprop	µg/L		9.20	1.47 - 13.7	Not Reported	
8620	Dinoseb	µg/L		2.64	0.264 - 4.10	Not Reported	
7775	MCPA	µg/L		0.00		Not Reported	
7780	MCPP	µg/L		0.00		Not Reported	
6500	4-Nitrophenol	µg/L		0.00		Not Reported	
6605	Pentachlorophenol	µg/L		0.00		Not Reported	
8645	Picloram	µg/L		0.00		Not Reported	
8655	2,4,5-T	µg/L	9.76	9.53	1.11 - 13.8	Acceptable	SOP LC-001-2
8650	2,4,5-TP (Silvex)	µg/L	6.10	7.05	1.05 - 10.2	Acceptable	SOP LC-001-2
WP PCBs in Water (cat# 832S)							
0040	Aroclor 1016	µg/L	< 0.200	0.00		Acceptable	EPA 8082A
8885	Aroclor 1221	µg/L	< 0.200	0.00		Acceptable	EPA 8082A
0042	Aroclor 1232	µg/L	< 0.200	0.00		Acceptable	EPA 8082A
0040	Aroclor 1242	µg/L	< 0.300	0.00		Acceptable	EPA 8082A
0044	Aroclor 1248	µg/L	3.21	2.95	1.21 - 4.11	Acceptable	EPA 8082A
0045	Aroclor 1254	µg/L	< 0.300	0.00		Acceptable	EPA 8082A
0046	Aroclor 1260	µg/L	< 0.200	0.00		Acceptable	EPA 8082A
WP PCBs in Oil (cat# 835S)							
8880	Aroclor 1016	mg/kg	< 0.500	0.00		Acceptable	EPA 8082A
8895	Aroclor 1242	mg/kg	< 0.500	0.00		Acceptable	EPA 8082A
8905	Aroclor 1254	mg/kg	< 0.500	0.00		Acceptable	EPA 8082A
8910	Aroclor 1260	mg/kg	9.41	12.4	2.45 - 18.1	Acceptable	EPA 8082A

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833)							
5500	Acenaphthene	µg/L	30.2	34.1	14.8 - 42.4	Acceptable	EPA 8270D
5505	Acenaphthylene	µg/L	< 1.00	0.00		Acceptable	EPA 8270D
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/L		0.00		Not Reported	
5545	Aniline	µg/L		0.00		Not Reported	
5555	Anthracene	µg/L	< 1.00	0.00		Acceptable	EPA 8270D
5595	Benzidine	µg/L	< 100	0.00		Acceptable	EPA 8270D
5575	Benzo(a)anthracene	µg/L	36.8	46.9	21.0 - 59.9	Acceptable	EPA 8270D
5585	Benzo(b)fluoranthene	µg/L	35.6	41.6	14.6 - 57.1	Acceptable	EPA 8270D
5600	Benzo(k)fluoranthene	µg/L	52.4	55.2	13.2 - 81.6	Acceptable	EPA 8270D
5590	Benzo(g,h,i)perylene	µg/L	< 1.00	0.00		Acceptable	EPA 8270D
5580	Benzo(a)pyrene	µg/L	45.3	60.6	18.2 - 77.7	Acceptable	EPA 8270D
5630	Benzyl alcohol	µg/L		0.00		Not Reported	
5660	4-Bromophenyl-phenylether	µg/L	61.1	62.1	21.1 - 84.2	Acceptable	EPA 8270D
5670	Butylbenzylphthalate	µg/L	74.5	84.5	13.5 - 123	Acceptable	EPA 8270D
5680	Carbazole	µg/L		0.00		Not Reported	
5745	4-Chloroaniline	µg/L		0.00		Not Reported	
5760	bis(2-Chloroethoxy)methane	µg/L	17.8	18.8	7.08 - 24.1	Acceptable	EPA 8270D
5765	bis(2-Chloroethyl)ether	µg/L	35.9	49.6	14.7 - 63.4	Acceptable	EPA 8270D
5780	bis(2-Chloroisopropyl)ether	µg/L	118	128	31.2 - 155	Acceptable	EPA 8270D
5790	1-Chloronaphthalene	µg/L		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/L	162	180	55.7 - 216	Acceptable	EPA 8270D
5825	4-Chlorophenyl-phenylether	µg/L	< 2.00	0.00		Acceptable	EPA 8270D
5855	Chrysene	µg/L	23.0	31.8	13.5 - 44.0	Acceptable	EPA 8270D
5895	Dibenz(a,h)anthracene	µg/L	30.0	32.0	8.43 - 47.0	Acceptable	EPA 8270D
5905	Dibenzofuran	µg/L	< 1.00	0.00		Acceptable	EPA 8270D
5925	Di-n-butylphthalate	µg/L	112	108	35.2 - 141	Acceptable	EPA 8270D
4610	1,2-Dichlorobenzene	µg/L		142	18.3 - 167	Not Reported	
4615	1,3-Dichlorobenzene	µg/L		33.3	4.87 - 41.4	Not Reported	
4620	1,4-Dichlorobenzene	µg/L		95.6	9.56 - 115	Not Reported	
5945	3,3'-Dichlorobenzidine	µg/L	< 40.0	0.00		Acceptable	EPA 8270D
6070	Diethylphthalate	µg/L	< 1.00	0.00		Acceptable	EPA 8270D
6135	Dimethylphthalate	µg/L	< 10.0	0.00		Acceptable	EPA 8270D

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833) (Continued)							
6185	2,4-Dinitrotoluene	µg/L	107	110	41.0 - 136	Acceptable	EPA 8270D
6190	2,6-Dinitrotoluene	µg/L	28.6	29.3	10.8 - 37.3	Acceptable	EPA 8270D
6200	Di-n-octylphthalate	µg/L	51.2	47.8	15.0 - 73.0	Acceptable	EPA 8270D
6065	bis(2-Ethylhexyl)phthalate	µg/L	73.3	80.3	23.9 - 112	Acceptable	EPA 8270D
6265	Fluoranthene	µg/L	59.6	58.5	26.7 - 73.1	Acceptable	EPA 8270D
6270	Fluorene	µg/L	88.1	96.0	41.4 - 115	Acceptable	EPA 8270D
6275	Hexachlorobenzene	µg/L	56.5	57.2	24.3 - 72.0	Acceptable	EPA 8270D
4835	Hexachlorobutadiene	µg/L	82.4	113	13.2 - 134	Acceptable	EPA 8270D
6285	Hexachlorocyclopentadiene	µg/L	78.4	205	20.5 - 262	Acceptable	EPA 8270D
4840	Hexachloroethane	µg/L	61.2	92.7	9.63 - 109	Acceptable	EPA 8270D
6315	Indeno(1,2,3-cd)pyrene	µg/L	34.6	45.0	9.58 - 61.5	Acceptable	EPA 8270D
6320	Isophorone	µg/L	50.3	53.7	21.7 - 70.2	Acceptable	EPA 8270D
6385	2-Methylnaphthalene	µg/L	75.7	87.9	16.8 - 104	Acceptable	EPA 8270D
5005	Naphthalene	µg/L	44.6	48.2	14.7 - 60.2	Acceptable	EPA 8270D
6460	2-Nitroaniline	µg/L		0.00		Not Reported	
6465	3-Nitroaniline	µg/L		0.00		Not Reported	
6470	4-Nitroaniline	µg/L		0.00		Not Reported	
5015	Nitrobenzene	µg/L	137	135	41.8 - 163	Acceptable	EPA 8270D
6525	N-Nitrosodiethylamine	µg/L		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/L	104	152	15.2 - 178	Acceptable	EPA 8270D
6535	N-Nitrosodiphenylamine	µg/L	< 3.00	0.00		Acceptable	EPA 8270D
6545	N-Nitroso-di-n-propylamine	µg/L	< 2.00	0.00		Acceptable	EPA 8270D
6590	Pentachlorobenzene	µg/L		0.00		Not Reported	
6615	Phenanthrene	µg/L	45.5	47.2	23.1 - 59.5	Acceptable	EPA 8270D
6665	Pyrene	µg/L	< 1.00	0.00		Acceptable	EPA 8270D
5095	Pyridine	µg/L		0.00		Not Reported	
6715	1,2,4,5-Tetrachlorobenzene	µg/L		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/L	52.2	66.1	13.6 - 81.0	Acceptable	EPA 8270D

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Acids (cat# 834)							
5610	Benzoic acid	µg/L		0.00		Not Reported	
5700	4-Chloro-3-methylphenol	µg/L	113	107	41.5 - 138	Acceptable	EPA 8270D
5800	2-Chlorophenol	µg/L	75.6	80.0	24.0 - 101	Acceptable	EPA 8270D
6000	2,4-Dichlorophenol	µg/L	187	178	58.8 - 216	Acceptable	EPA 8270D
6005	2,6-Dichlorophenol	µg/L	61.7	61.1	19.2 - 78.9	Acceptable	EPA 8270D
6130	2,4-Dimethylphenol	µg/L	111	121	26.1 - 159	Acceptable	EPA 8270D
6360	4,6-Dinitro-2-methylphenol	µg/L	78.7	80.6	23.1 - 111	Acceptable	EPA 8270D
6175	2,4-Dinitrophenol	µg/L	101	114	11.4 - 162	Acceptable	EPA 8270D
6400	2-Methylphenol	µg/L	134	152	28.6 - 187	Acceptable	EPA 8270D
6410	4-Methylphenol	µg/L	< 2.00	0.00		Acceptable	EPA 8270D
6490	2-Nitrophenol	µg/L	63.0	58.5	17.8 - 73.4	Acceptable	EPA 8270D
6500	4-Nitrophenol	µg/L	< 15.0	0.00		Acceptable	EPA 8270D
6605	Pentachlorophenol	µg/L	96.8	115	30.0 - 159	Acceptable	EPA 8270D
6625	Phenol	µg/L	45.0	111	11.1 - 150	Acceptable	EPA 8270D
6735	2,3,4,6-Tetrachlorophenol	µg/L		194	43.6 - 261	Not Reported	
6835	2,4,5-Trichlorophenol	µg/L	129	132	46.3 - 168	Acceptable	EPA 8270D
6840	2,4,6-Trichlorophenol	µg/L	79.4	82.7	26.4 - 105	Acceptable	EPA 8270D
WP Nitroaromatics & Nitramines (cat# 932)							
9306	4-Amino-2,6-dinitrotoluene	µg/L		13.9	7.64 - 20.2	Not Reported	
9303	2-Amino-4,6-dinitrotoluene	µg/L		7.29	4.01 - 10.6	Not Reported	
6160	1,3-Dinitrobenzene	µg/L	0.790	1.21	0.666 - 1.75	Acceptable	EPA 8270D
6185	2,4-Dinitrotoluene	µg/L		8.88	4.88 - 12.9	Not Reported	
6190	2,6-Dinitrotoluene	µg/L		2.34	1.29 - 3.39	Not Reported	
9522	HMX	µg/L		5.61	3.08 - 8.13	Not Reported	
5015	Nitrobenzene	µg/L		16.8	9.24 - 24.4	Not Reported	
9507	2-Nitrotoluene	µg/L		19.5	10.7 - 28.3	Not Reported	
9510	3-Nitrotoluene	µg/L		15.3	8.42 - 22.2	Not Reported	
9513	4-Nitrotoluene	µg/L		6.87	3.78 - 9.96	Not Reported	
9432	RDX	µg/L		16.7	9.18 - 24.2	Not Reported	
6415	Tetryl	µg/L		0.00		Not Reported	
6885	1,3,5-Trinitrobenzene	µg/L	8.20	11.6	6.38 - 16.8	Acceptable	EPA 8270D
9651	2,4,6-Trinitrotoluene	µg/L		12.6	6.93 - 18.3	Not Reported	

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ERA Customer Number: S744803
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Low-Level PAHs (cat# 836)							
5500	Acenaphthene	µg/L	8.54	9.15	5.06 - 10.5	Acceptable	EPA 8270D
5505	Acenaphthylene	µg/L	5.74	5.22	2.52 - 6.25	Acceptable	EPA 8270D
5555	Anthracene	µg/L	0.602	0.626	0.173 - 0.886	Acceptable	EPA 8270D
5575	Benzo(a)anthracene	µg/L	0.798	0.914	0.536 - 1.08	Acceptable	EPA 8270D
5585	Benzo(b)fluoranthene	µg/L	1.24	1.29	0.552 - 1.60	Acceptable	EPA 8270D
5600	Benzo(k)fluoranthene	µg/L	1.22	1.32	0.728 - 1.60	Acceptable	EPA 8270D
5590	Benzo(g,h,i)perylene	µg/L	0.375	0.425	0.166 - 0.582	Acceptable	EPA 8270D
5580	Benzo(a)pyrene	µg/L	1.64	1.86	0.797 - 2.22	Acceptable	EPA 8270D
5855	Chrysene	µg/L	0.680	0.837	0.471 - 1.09	Acceptable	EPA 8270D
5895	Dibenz(a,h)anthracene	µg/L	1.60	1.76	0.574 - 2.34	Acceptable	EPA 8270D
6265	Fluoranthene	µg/L	1.07	1.03	0.587 - 1.26	Acceptable	EPA 8270D
6270	Fluorene	µg/L	9.46	8.93	3.99 - 10.3	Acceptable	EPA 8270D
6315	Indeno(1,2,3-cd)pyrene	µg/L	1.11	1.04	0.487 - 1.30	Acceptable	EPA 8270D
5005	Naphthalene	µg/L	10.2	9.80	3.98 - 10.8	Acceptable	EPA 8270D
6615	Phenanthrene	µg/L	0.920	0.911	0.458 - 1.14	Acceptable	EPA 8270D
6665	Pyrene	µg/L	0.730	0.841	0.479 - 1.04	Acceptable	EPA 8270D
WP Organochlorine Pesticides (cat# 831)							
0047	Aldrin	µg/L	8.74	9.66	2.71 - 13.3	Acceptable	SOP-GC-011-5
7110	alpha-BHC	µg/L	7.84	9.33	4.15 - 12.6	Acceptable	SOP-GC-011-5
7115	beta-BHC	µg/L	2.19	2.32	0.911 - 3.35	Acceptable	SOP-GC-011-5
7105	delta-BHC	µg/L	9.80	10.9	4.15 - 15.2	Acceptable	SOP-GC-011-5
7120	gamma-BHC(Lindane)	µg/L	5.66	6.56	2.67 - 9.06	Acceptable	SOP-GC-011-5
7240	alpha-Chlordane	µg/L	2.74	3.16	1.41 - 4.37	Acceptable	SOP-GC-011-5
7245	gamma-Chlordane	µg/L	3.37	3.71	1.56 - 5.11	Acceptable	SOP-GC-011-5
0049	4,4'-DDD	µg/L	5.11	5.53	2.06 - 7.93	Acceptable	SOP-GC-011-5
0050	4,4'-DDE	µg/L	7.12	7.95	3.54 - 10.2	Acceptable	SOP-GC-011-5
0051	4,4'-DDT	µg/L	4.13	4.49	1.68 - 6.43	Acceptable	SOP-GC-011-5
0048	Dieldrin	µg/L	8.70	9.92	4.88 - 13.5	Acceptable	SOP-GC-011-5
7540	Endrin	µg/L	4.96	5.01	1.86 - 7.55	Acceptable	SOP-GC-011-5
7530	Endrin aldehyde	µg/L	11.0	12.5	3.77 - 18.6	Acceptable	SOP-GC-011-5
7535	Endrin ketone	µg/L	8.12	8.78	4.83 - 12.7	Acceptable	SOP-GC-011-5
7510	Endosulfan I	µg/L	9.70	13.2	4.02 - 19.3	Acceptable	SOP-GC-011-5
7515	Endosulfan II	µg/L	10.8	11.2	3.50 - 14.9	Acceptable	SOP-GC-011-5
7520	Endosulfan sulfate	µg/L	10.6	11.9	4.50 - 17.4	Acceptable	SOP-GC-011-5
0052	Heptachlor	µg/L	1.61	1.82	0.594 - 2.57	Acceptable	SOP-GC-011-5
0078	Heptachlor epoxide (beta)	µg/L	4.71	5.44	2.69 - 7.62	Acceptable	SOP-GC-011-5
7810	Methoxychlor	µg/L	9.57	9.58	2.55 - 15.1	Acceptable	SOP-GC-011-5
WP Chlordane (cat# 837)							
0053	Chlordane, technical	µg/L	13.3	10.8	4.05 - 15.6	Acceptable	SOP-GC-011-5

WP-177 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Toxaphene (cat# 838)							
8250	Toxaphene	µg/L	42.8	43.6	4.36 - 78.9	Acceptable	SOP-GC-011-5
WP Organophosphorous Pesticides (OPP) (cat# 934)							
7075	Azinphos-methyl (Guthion)	µg/L	11.2	10.4	1.22 - 17.9	Acceptable	SOP-GC-012-3
7220	Carbophenothion	µg/L		7.66	0.766 - 11.9	Not Reported	
7300	Chlorpyrifos	µg/L	14.6	14.4	4.05 - 20.3	Acceptable	SOP-GC-012-3
7395	Demeton-O	µg/L		0.00		Not Reported	
7385	Demeton-S	µg/L		0.00		Not Reported	
7410	Diazinon	µg/L	11.9	12.6	4.65 - 18.5	Acceptable	SOP-GC-012-3
8610	Dichlorvos (DDVP)	µg/L		0.00		Not Reported	
7475	Dimethoate	µg/L		16.0	1.60 - 25.1	Not Reported	
7495	Dioxathion	µg/L		0.00		Not Reported	
8625	Disulfoton	µg/L	8.17	7.84	1.29 - 12.8	Acceptable	SOP-GC-012-3
7565	Ethion	µg/L	23.1	18.6	5.86 - 31.2	Acceptable	SOP-GC-012-3
7570	Ethoprop	µg/L	6.16	6.11	2.07 - 8.46	Acceptable	SOP-GC-012-3
7955	Ethyl Parathion	µg/L	17.1	17.1	9.40 - 24.8	Acceptable	SOP-GC-012-3
7580	Famphur	µg/L		11.5	3.72 - 20.0	Not Reported	
7640	Fonofos	µg/L	19.9	17.5	1.75 - 34.4	Acceptable	SOP-GC-012-3
7770	Malathion	µg/L	11.8	12.9	2.91 - 20.3	Acceptable	SOP-GC-012-3
7825	Methyl Parathion	µg/L	16.1	16.8	6.26 - 23.7	Acceptable	SOP-GC-012-3
7985	Phorate	µg/L	17.5	19.4	6.52 - 24.8	Acceptable	SOP-GC-012-3
8000	Phosmet	µg/L		0.00		Not Reported	
8110	Ronnel	µg/L		10.3	3.93 - 12.6	Not Reported	
8200	Stirophos	µg/L		0.00		Not Reported	
8185	Terbufos	µg/L	14.1	19.1	5.32 - 23.7	Acceptable	SOP-GC-012-3