



A Waters Company

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

SOIL-75



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 07/18/11

Close Date: 09/01/11

Report Issued Date: 09/22/11



A Waters Company

September 22, 2011

Pam M. Varner
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Enclosed is your final report for ERA's SOIL-75 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 SOIL-75 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).

Please note the following changes to our final reports:

- 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.

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 SOIL-75 Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink that reads "Jay R. McBurney".

Jay R. McBurney
Quality Program Manager

attachments
jrm



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
Florida	Steve Arms / 904-791-1502	All Analytes	2009 TNI
Louisiana	Paul Bergeron / 225-219-1244	All Analytes	2009 TNI
North Carolina (WP)	Dana Satterwhite / 919-733-3908 x 243	Custom Reporting	2009 TNI
Texas	Frank Jamison / (512) 239-3754	All Analytes	2009 TNI

SOIL-75 Definitions & Study Discussion

Study Dates: 07/18/11 - 09/01/11

Report Issued: 09/22/11

SOIL Study Definitions

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

The ERA Assigned Value for the Organic Proficiency Testing Standards is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation as applicable. The ERA assigned value for the Inorganic Proficiency Testing Standards, with the exception of the TCLP Metals in Soil, is equal to the maximum amount of the parameter available in the standard by applicable EPA methodologies. The ERA assigned value for the TCLP metals is equal to the mean of ERA's internal analytical analyses. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards. All parameters not added to the standard are 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 TNI 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.

SOIL Study Discussion

ERA's SOIL-75 Proficiency Testing (PT) 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 current TNI FoPT tables.

ERA's SOIL-75 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 in the standards met the acceptance criteria contained in the 2009 TNI Standard and the criteria contained in the current TNI Fields of Proficiency Testing (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 SOIL-75 Proficiency Testing study reports shall not be reproduced except in its entirety and not without the permission of the participating laboratory. The report must not be used by the participating laboratories to claim product endorsement 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 SOIL Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.

SOIL-75 Laboratory Exception Report

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2009 TNI Evaluation Check: 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.



2009 TNI Evaluation Report

Study: **SOIL-75**

ERA Customer Number: **A520001**

Laboratory Name: **Analytical Services Inc**

Inorganic Results





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SOIL-75 2009 TNI Evaluation Final Complete Report

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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg	5980	10100	4560 - 15600	Acceptable	EPA 6010C 2000	7/29/2011	-1.66	10100	2490	FS
1005	Antimony	mg/kg	79.8	227	22.7 - 286	Acceptable	EPA 6010C 2000	8/17/2011	-0.479	113	69.3	FS
1010	Arsenic	mg/kg	247	265	169 - 306	Acceptable	EPA 6010C 2000	7/29/2011	0.521	238	18.0	FS
1015	Barium	mg/kg	255	267	186 - 318	Acceptable	EPA 6010C 2000	7/29/2011	0.150	252	19.8	FS
1020	Beryllium	mg/kg	96.6	104	69.4 - 117	Acceptable	EPA 6010C 2000	7/29/2011	0.429	93.2	7.80	FS
1025	Boron	mg/kg	102	140	71.9 - 164	Acceptable	EPA 6010C 2000	8/17/2011	-1.05	118	15.3	FS
1030	Cadmium	mg/kg	196	215	140 - 242	Acceptable	EPA 6010C 2000	7/29/2011	0.319	191	16.0	FS
1035	Calcium	mg/kg	6790	6950	5080 - 8600	Acceptable	EPA 6010C 2000	7/29/2011	-0.0789	6840	601	FS
1040	Chromium	mg/kg	131	141	89.3 - 166	Acceptable	EPA 6010C 2000	7/29/2011	0.326	128	10.2	FS
1050	Cobalt	mg/kg	188	197	132 - 223	Acceptable	EPA 6010C 2000	7/29/2011	0.700	178	14.4	FS
1055	Copper	mg/kg	123	139	92.3 - 154	Acceptable	EPA 6010C 2000	7/29/2011	-0.0375	123	9.60	FS
1070	Iron	mg/kg	9830	15000	4290 - 22000	Acceptable	EPA 6010C 2000	7/29/2011	-1.59	13100	2080	FS
1075	Lead	mg/kg	102	112	73.0 - 132	Acceptable	EPA 6010C 2000	7/29/2011	-0.0819	103	8.52	FS
1085	Magnesium	mg/kg	2590	3080	1980 - 4010	Acceptable	EPA 6010C 2000	7/29/2011	-1.12	2990	360	FS
1090	Manganese	mg/kg	344	334	250 - 415	Acceptable	EPA 6010C 2000	7/29/2011	0.506	333	22.2	FS
1095	Mercury	mg/kg		12.8	6.36 - 18.4	Not Reported				12.4	1.67	
1100	Molybdenum	mg/kg	87.4	111	63.3 - 122	Acceptable	EPA 6010C 2000	7/29/2011	-0.441	91.1	8.44	FS
1105	Nickel	mg/kg	124	131	85.8 - 150	Acceptable	EPA 6010C 2000	7/29/2011	0.582	118	10.5	FS
1125	Potassium	mg/kg	2410	2930	1780 - 3950	Acceptable	EPA 6010C 2000	7/29/2011	-0.991	2860	459	FS
1140	Selenium	mg/kg	116	123	72.6 - 148	Acceptable	EPA 6010C 2000	7/29/2011	0.463	110	11.9	FS
1150	Silver	mg/kg	50.0	51.4	31.4 - 63.2	Acceptable	EPA 6010C 2000	7/29/2011	0.747	47.3	3.64	FS





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg	525	581	289 - 811	Acceptable	EPA 6010C 2000	7/29/2011	-0.363	550	68.6	FS
1160	Strontium	mg/kg	129	135	90.6 - 166	Acceptable	EPA 6010C 2000	7/29/2011	0.0384	128	11.7	FS
1165	Thallium	mg/kg	166	176	108 - 208	Acceptable	EPA 6010C 2000	7/29/2011	0.610	158	12.9	FS
1175	Tin	mg/kg	111	119	61.7 - 153	Acceptable	EPA 6010C 2000	7/29/2011	0.307	107	11.5	FS
1180	Titanium	mg/kg	145	293	0.00 - 606	Acceptable	EPA 6010C 2000	8/17/2011	-1.27	282	108	FS
1185	Vanadium	mg/kg	116	132	81.2 - 157	Acceptable	EPA 6010C 2000	7/29/2011	-0.298	119	10.9	FS
1190	Zinc	mg/kg	184	192	127 - 239	Acceptable	EPA 6010C 2000	7/29/2011	0.0530	183	15.3	FS



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





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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		10100	4560 - 15600	Not Reported				10100	2490	
1005	Antimony	mg/kg		227	22.7 - 286	Not Reported				113	69.3	
1010	Arsenic	mg/kg		265	169 - 306	Not Reported				238	18.0	
1015	Barium	mg/kg		267	186 - 318	Not Reported				252	19.8	
1020	Beryllium	mg/kg		104	69.4 - 117	Not Reported				93.2	7.80	
1025	Boron	mg/kg		140	71.9 - 164	Not Reported				118	15.3	
1030	Cadmium	mg/kg		215	140 - 242	Not Reported				191	16.0	
1035	Calcium	mg/kg		6950	5080 - 8600	Not Reported				6840	601	
1040	Chromium	mg/kg		141	89.3 - 166	Not Reported				128	10.2	
1050	Cobalt	mg/kg		197	132 - 223	Not Reported				178	14.4	
1055	Copper	mg/kg		139	92.3 - 154	Not Reported				123	9.60	
1070	Iron	mg/kg		15000	4290 - 22000	Not Reported				13100	2080	
1075	Lead	mg/kg		112	73.0 - 132	Not Reported				103	8.52	
1085	Magnesium	mg/kg		3080	1980 - 4010	Not Reported				2990	360	
1090	Manganese	mg/kg		334	250 - 415	Not Reported				333	22.2	
1095	Mercury	mg/kg	13.7	12.8	6.36 - 18.4	Acceptable	EPA 7471B 1998	8/2/2011	0.786	12.4	1.67	CW
1100	Molybdenum	mg/kg		111	63.3 - 122	Not Reported				91.1	8.44	
1105	Nickel	mg/kg		131	85.8 - 150	Not Reported				118	10.5	
1125	Potassium	mg/kg		2930	1780 - 3950	Not Reported				2860	459	
1140	Selenium	mg/kg		123	72.6 - 148	Not Reported				110	11.9	
1150	Silver	mg/kg		51.4	31.4 - 63.2	Not Reported				47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg		581	289 - 811	Not Reported				550	68.6	
1160	Strontium	mg/kg		135	90.6 - 166	Not Reported				128	11.7	
1165	Thallium	mg/kg		176	108 - 208	Not Reported				158	12.9	
1175	Tin	mg/kg		119	61.7 - 153	Not Reported				107	11.5	
1180	Titanium	mg/kg		293	0.00 - 606	Not Reported				282	108	
1185	Vanadium	mg/kg		132	81.2 - 157	Not Reported				119	10.9	
1190	Zinc	mg/kg		192	127 - 239	Not Reported				183	15.3	

SOIL Hexavalent Chromium in Soil (cat# 876)

1045	Chromium VI	mg/kg	150	185	54.8 - 245	Acceptable	EPA 7196A 1 1992	8/3/2011	-0.001	150	21.3	MP
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SOIL TCLP Metals in Soil (cat# 629)

1005	Antimony	mg/L	3.29	3.65	2.40 - 4.36	Acceptable	EPA 6010C 2000	8/3/2011	-0.285	3.38	0.326	FS
1010	Arsenic	mg/L	1.34	1.55	0.847 - 1.90	Acceptable	EPA 6010C 2000	8/3/2011	-0.179	1.37	0.175	FS
1015	Barium	mg/L	1.38	1.54	0.525 - 2.01	Acceptable	EPA 6010C 2000	8/3/2011	0.452	1.27	0.248	FS
1020	Beryllium	mg/L	3.80	4.10	2.09 - 5.32	Acceptable	EPA 6010C 2000	8/3/2011	0.173	3.71	0.539	FS
1030	Cadmium	mg/L	2.24	2.48	1.58 - 2.94	Acceptable	EPA 6010C 2000	8/3/2011	-0.0838	2.26	0.226	FS
1040	Chromium	mg/L	5.05	5.67	3.45 - 6.60	Acceptable	EPA 6010C 2000	8/3/2011	0.0461	5.02	0.526	FS
1075	Lead	mg/L	0.727	0.764	0.319 - 1.07	Acceptable	EPA 6010C 2000	8/3/2011	0.261	0.694	0.125	FS
1095	Mercury	mg/L		1.38	0.280 - 2.15	Not Reported				1.21	0.312	
1105	Nickel	mg/L	1.29	1.37	0.821 - 1.66	Acceptable	EPA 6010C 2000	8/3/2011	0.357	1.24	0.140	FS
1140	Selenium	mg/L	2.88	3.18	2.11 - 3.85	Acceptable	EPA 6010C 2000	8/3/2011	-0.348	2.98	0.291	FS
1150	Silver	mg/L	5.68	5.67	0.922 - 9.32	Acceptable	EPA 6010C 2000	8/3/2011	0.398	5.12	1.40	FS
1190	Zinc	mg/L	1.20	1.41	0.559 - 1.79	Acceptable	EPA 6010C 2000	8/3/2011	0.120	1.18	0.205	FS





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SOIL TCLP Metals in Soil (cat# 629)

1005	Antimony	mg/L		3.65	2.40 - 4.36	Not Reported				3.38	0.326	
1010	Arsenic	mg/L		1.55	0.847 - 1.90	Not Reported				1.37	0.175	
1015	Barium	mg/L		1.54	0.525 - 2.01	Not Reported				1.27	0.248	
1020	Beryllium	mg/L		4.10	2.09 - 5.32	Not Reported				3.71	0.539	
1030	Cadmium	mg/L		2.48	1.58 - 2.94	Not Reported				2.26	0.226	
1040	Chromium	mg/L		5.67	3.45 - 6.60	Not Reported				5.02	0.526	
1075	Lead	mg/L		0.764	0.319 - 1.07	Not Reported				0.694	0.125	
1095	Mercury	mg/L	1.58	1.38	0.280 - 2.15	Acceptable	EPA 7470A 1 1994	8/3/2011	1.17	1.21	0.312	CW
1105	Nickel	mg/L		1.37	0.821 - 1.66	Not Reported				1.24	0.140	
1140	Selenium	mg/L		3.18	2.11 - 3.85	Not Reported				2.98	0.291	
1150	Silver	mg/L		5.67	0.922 - 9.32	Not Reported				5.12	1.40	
1190	Zinc	mg/L		1.41	0.559 - 1.79	Not Reported				1.18	0.205	

SOIL Cyanide in Soil (cat# 621)

1635	Cyanide, total	mg/kg	21	25.6	11.0 - 31.4	Acceptable	EPA 9010C/9014 1996	8/6/2011	-0.0607	21.2	3.38	
1923	Reactive Cyanide	mg/kg		< 25.0		Not Reported						

SOIL Corrosivity/pH in Soil (cat# 875)

1625	Corrosivity (pH)	S.U.	10.2	10.3	9.70 - 10.9	Acceptable	EPA 9045D 2002	8/4/2011	0.543	10.1	0.204	MP
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SOIL Ignitability/Flashpoint (cat# 874)

1780	Ignitability/Flashpoint	°F	124	120	103 - 137	Acceptable	EPA 1010A 2002	8/2/2011	0.436	122	5.14	CW
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2009 TNI Evaluation Report

Study: **SOIL-75**

ERA Customer Number: **A520001**

Laboratory Name: **Analytical Services Inc**

Organic Results





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SOIL Volatiles in Soil (cat# 623)

4315	Acetone	µg/kg	211	346	40.0 - 626	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.581	278	116	MP
4320	Acetonitrile	µg/kg	611	640	145 - 1080	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.00377	612	155	MP
4325	Acrolein	µg/kg	< 50	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4375	Benzene	µg/kg	71	76.0	44.7 - 105	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.633	75.3	6.77	MP
4385	Bromobenzene	µg/kg	< 10	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4395	Bromodichloromethane	µg/kg	146	155	102 - 213	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.949	160	14.4	MP
4400	Bromoform	µg/kg	91	92.1	46.4 - 137	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.315	94.9	12.5	MP
4950	Bromomethane	µg/kg	< 20	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	7/28/2011		8.44	0.00	MP
4410	2-Butanone (MEK)	µg/kg	325	390	63.8 - 612	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.144	338	91.4	MP
5000	tert-Butyl methyl ether (MTBE)	µg/kg	180	192	81.3 - 280	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.53	192	23.2	MP
4450	Carbon disulfide	µg/kg	< 10	< 12.0	0.00 - 12.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4455	Carbon tetrachloride	µg/kg	148	157	76.5 - 232	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.802	162	17.2	MP
4475	Chlorobenzene	µg/kg	99	105	59.0 - 145	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.585	105	10.1	MP
4575	Chlorodibromomethane	µg/kg	145	169	104 - 232	Acceptable	EPA 8260B 2 1996	7/28/2011	-1.59	173	17.8	MP
4485	Chloroethane	µg/kg	< 20	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	7/28/2011		162	0.00	MP
4500	2-Chloroethylvinylether	µg/kg	< 10	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4505	Chloroform	µg/kg	191	197	120 - 274	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.219	195	19.1	MP
4960	Chloromethane	µg/kg	< 20	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	132	185	87.5 - 256	Acceptable	EPA 8260B 2 1996	7/28/2011	-1.42	172	28.1	MP
4585	1,2-Dibromoethane (EDB)	µg/kg	< 10	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4595	Dibromomethane	µg/kg	< 10	< 12.0	0.00 - 12.0	Acceptable	EPA 8260B 2 1996	7/28/2011		10.6	0.00	MP





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SOIL Volatiles in Soil (cat# 623) (Continued)

4610	1,2-Dichlorobenzene	µg/kg	134	135	65.2 - 191	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.338	138	12.9	MP
4615	1,3-Dichlorobenzene	µg/kg	156	160	62.6 - 236	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.139	159	20.1	MP
4620	1,4-Dichlorobenzene	µg/kg	68	72.9	25.2 - 104	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.609	72.7	7.72	MP
4625	Dichlorodifluoromethane (Freon 12)	µg/kg	< 20	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4630	1,1-Dichloroethane	µg/kg	184	187	106 - 269	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.375	191	19.3	MP
4635	1,2-Dichloroethane	µg/kg	61	70.4	41.2 - 98.7	Acceptable	EPA 8260B 2 1996	7/28/2011	-1.62	70.1	5.65	MP
4640	1,1-Dichloroethylene	µg/kg	148	145	102 - 204	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.286	153	17.1	MP
4645	cis-1,2-Dichloroethylene	µg/kg	143	154	104 - 204	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.653	154	16.8	MP
4700	trans-1,2-Dichloroethylene	µg/kg	70	72.9	49.5 - 101	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.618	75.3	8.59	MP
4655	1,2-Dichloropropane	µg/kg	155	161	94.1 - 215	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.549	162	13.3	MP
4680	cis-1,3-Dichloropropylene	µg/kg	< 10	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4685	trans-1,3-Dichloropropylene	µg/kg	< 10	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
4765	Ethylbenzene	µg/kg	158	162	90.9 - 230	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.161	161	18.2	MP
4860	2-Hexanone	µg/kg	331	378	98.2 - 583	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.119	341	80.8	MP
4900	Isopropylbenzene	µg/kg	116	107	66.9 - 161	Acceptable	EPA 8260B 2 1996	7/28/2011	0.131	114	15.7	MP
4975	Methylene chloride	µg/kg	166	186	87.1 - 267	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.715	184	25.0	MP
4995	4-Methyl-2-pentanone (MIBK)	µg/kg	242	254	112 - 368	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.0484	244	46.7	MP
5005	Naphthalene	µg/kg	138	149	63.3 - 236	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.403	150	28.8	MP
5100	Styrene	µg/kg	111	116	77.7 - 159	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.536	118	13.5	MP
5105	1,1,1,2-Tetrachloroethane	µg/kg	60	68.1	44.0 - 94.3	Acceptable	EPA 8260B 2 1996	7/28/2011	-1.62	69.9	6.10	MP
5110	1,1,2,2-Tetrachloroethane	µg/kg	180	198	104 - 286	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.431	189	20.8	MP





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SOIL Volatiles in Soil (cat# 623) (Continued)

5115	Tetrachloroethylene	µg/kg	76	83.9	37.4 - 121	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.553	82.5	11.7	MP
5140	Toluene	µg/kg	107	108	62.0 - 152	Acceptable	EPA 8260B 2 1996	7/28/2011	0.116	106	10.4	MP
5155	1,2,4-Trichlorobenzene	µg/kg	121	128	67.3 - 180	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.149	124	18.8	MP
5160	1,1,1-Trichloroethane	µg/kg	142	139	79.3 - 198	Acceptable	EPA 8260B 2 1996	7/28/2011	0.235	138	14.7	MP
5165	1,1,2-Trichloroethane	µg/kg	150	152	88.7 - 208	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.125	152	12.6	MP
5170	Trichloroethylene	µg/kg	119	128	65.8 - 182	Acceptable	EPA 8260B 2 1996	7/28/2011	-0.817	129	12.8	MP
5175	Trichlorofluoromethane	µg/kg	< 20	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
5180	1,2,3-Trichloropropane (TCP)	µg/kg	75	73.0	36.7 - 108	Acceptable	EPA 8260B 2 1996	7/28/2011	0.238	72.2	11.8	MP
5225	Vinyl acetate	µg/kg	< 10	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
5235	Vinyl chloride	µg/kg	< 20	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	7/28/2011		0.00	0.00	MP
5260	Xylenes, total	µg/kg	262	259	128 - 380	Acceptable	EPA 8260B 2 1996	7/28/2011	0.357	253	25.8	MP





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SOIL Base/Neutrals and Acids in Soil (cat# 467)

5500	Acenaphthene	µg/kg	1330	2520	505 - 3090	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.4	1800	333	RC
5505	Acenaphthylene	µg/kg	1300	2310	478 - 3080	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.35	1780	356	RC
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5545	Aniline	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		760	0.00	RC
5555	Anthracene	µg/kg	3470	5980	1290 - 6720	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.743	4010	724	RC
5595	Benzidine	µg/kg	< 2600	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5610	Benzoic acid	µg/kg	< 1700	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5575	Benzo(a)anthracene	µg/kg	< 330	< 200	0.00 - 200	Acceptable	EPA 8270D 3 2007	7/27/2011		3760	1080	RC
5585	Benzo(b)fluoranthene	µg/kg	1030	1350	281 - 2030	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.561	1160	226	RC
5600	Benzo(k)fluoranthene	µg/kg	2130	2740	788 - 3840	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.436	2310	417	RC
5590	Benzo(g,h,i)perylene	µg/kg	< 330	< 200	0.00 - 200	Acceptable	EPA 8270D 3 2007	7/27/2011		1870	2020	RC
5580	Benzo(a)pyrene	µg/kg	4180	6200	1360 - 7520	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.324	4440	793	RC
5630	Benzyl alcohol	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		4630	0.00	RC
5760	bis(2-Chloroethoxy)methane	µg/kg	1700	3180	551 - 4110	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.37	2330	460	RC
5765	bis(2-Chloroethyl)ether	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		2260	310	RC
5780	bis(2-Chloroisopropyl)ether	µg/kg	4020	8540	1110 - 9960	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.17	5540	1300	RC
5660	4-Bromophenyl-phenylether	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5670	Butylbenzylphthalate	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5680	Carbazole	µg/kg	< 330	< 280	0.00 - 280	Acceptable	EPA 8270D 3 2007	7/27/2011		42.3	4.24	RC
5745	4-Chloroaniline	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5700	4-Chloro-3-methylphenol	µg/kg	6150	12700	3460 - 14000	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.23	8490	1910	RC





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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

5790	1-Chloronaphthalene	µg/kg		< 110	0.00 - 110	Not Reported				0.00	0.00	
5795	2-Chloronaphthalene	µg/kg	< 330	< 200	0.00 - 200	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5800	2-Chlorophenol	µg/kg	4490	10000	1620 - 11000	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.17	6200	1450	RC
5825	4-Chlorophenyl-phenylether	µg/kg	2690	4660	1220 - 5690	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.15	3460	666	RC
5855	Chrysene	µg/kg	2790	4100	1090 - 4920	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.383	3000	560	RC
5895	Dibenz(a,h)anthracene	µg/kg	1080	1580	200 - 2240	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.342	1170	270	RC
5905	Dibenzofuran	µg/kg	5970	11000	2820 - 13000	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.23	7910	1580	RC
5925	Di-n-butylphthalate	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		217	0.00	RC
4610	1,2-Dichlorobenzene	µg/kg	2740	8780	878 - 9660	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.45	5080	1620	RC
4615	1,3-Dichlorobenzene	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		3980	0.00	RC
4620	1,4-Dichlorobenzene	µg/kg	2870	10700	1070 - 11800	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.41	5690	2000	RC
5945	3,3'-Dichlorobenzidine	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6000	2,4-Dichlorophenol	µg/kg	5220	11100	1910 - 12200	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.08	7060	1710	RC
6005	2,6-Dichlorophenol	µg/kg	2100	4390	866 - 4830	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.925	2650	594	RC
6070	Diethylphthalate	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6130	2,4-Dimethylphenol	µg/kg	< 600	< 600	0.00 - 600	Acceptable	EPA 8270D 3 2007	7/27/2011		501	0.00	RC
6135	Dimethylphthalate	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6175	2,4-Dinitrophenol	µg/kg	795	9650	0.00 - 10600	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.588	1730	1590	RC
6185	2,4-Dinitrotoluene	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6190	2,6-Dinitrotoluene	µg/kg	3590	6420	1940 - 7780	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.35	4860	939	RC
6200	Di-n-octylphthalate	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC





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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6065	bis(2-Ethylhexyl)phthalate	µg/kg	5100	6740	1670 - 9080	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.272	5380	1020	RC
6265	Fluoranthene	µg/kg	1330	2030	622 - 2680	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.27	1650	252	RC
6270	Fluorene	µg/kg	3870	6750	2150 - 8210	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.45	5180	904	RC
6275	Hexachlorobenzene	µg/kg	7820	12600	4010 - 15800	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.1	9920	1900	RC
4835	Hexachlorobutadiene	µg/kg	2870	6160	848 - 6940	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.01	3890	1020	RC
6285	Hexachlorocyclopentadiene	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
4840	Hexachloroethane	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		48.5	20.9	RC
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1490	2010	201 - 3040	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.245	1580	362	RC
6320	Isophorone	µg/kg	4560	9360	2180 - 11700	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.51	6960	1590	RC
6360	4,6-Dinitro-2-methylphenol	µg/kg	< 600	< 600	0.00 - 600	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6385	2-Methylnaphthalene	µg/kg	2020	4170	888 - 4850	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.29	2870	660	RC
6400	2-Methylphenol	µg/kg	1730	6800	680 - 7480	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.31	2490	584	RC
6410	3&4-Methylphenol	µg/kg	< 600	< 600	0.00 - 600	Acceptable	EPA 8270D 3 2007	7/27/2011		2540	1100	RC
5005	Naphthalene	µg/kg	4910	10800	2170 - 11900	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.13	6930	1780	RC
6460	2-Nitroaniline	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6465	3-Nitroaniline	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6470	4-Nitroaniline	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5015	Nitrobenzene	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6490	2-Nitrophenol	µg/kg	5760	12200	1470 - 14000	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.983	7720	2000	RC
6500	4-Nitrophenol	µg/kg	5770	12900	1290 - 17600	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.971	8190	2490	RC
6525	N-Nitrosodiethylamine	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC





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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6530	N-Nitrosodimethylamine	µg/kg	2690	6370	565 - 7010	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.02	3780	1070	RC
6535	N-Nitrosodiphenylamine	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6545	N-Nitroso-di-n-propylamine	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6590	Pentachlorobenzene	µg/kg	< 330	< 280	0.00 - 280	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6605	Pentachlorophenol	µg/kg	5880	13100	1310 - 14400	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.00628	5900	2620	RC
6615	Phenanthrene	µg/kg	2280	3350	978 - 4340	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.904	2660	422	RC
6625	Phenol	µg/kg	3960	8080	808 - 9610	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.05	5180	1160	RC
6665	Pyrene	µg/kg	1760	2340	680 - 3020	Acceptable	EPA 8270D 3 2007	7/27/2011	-0.255	1850	350	RC
5095	Pyridine	µg/kg	< 330	< 100	0.00 - 100	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6715	1,2,4,5-Tetrachlorobenzene	µg/kg	< 330	< 240	0.00 - 240	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6735	2,3,4,6-Tetrachlorophenol	µg/kg	< 330	< 130	0.00 - 130	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
5155	1,2,4-Trichlorobenzene	µg/kg	< 330	< 300	0.00 - 300	Acceptable	EPA 8270D 3 2007	7/27/2011		0.00	0.00	RC
6835	2,4,5-Trichlorophenol	µg/kg	2690	5190	746 - 6350	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.09	3550	787	RC
6840	2,4,6-Trichlorophenol	µg/kg	3800	8140	1460 - 8950	Acceptable	EPA 8270D 3 2007	7/27/2011	-1.23	5090	1050	RC





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SOIL Organochlorine Pesticides in Soil (cat# 468)

7025	Aldrin	µg/kg	210	295	72.4 - 324	Acceptable	EPA 8081B 2000	8/12/2011	0.234	198	49.8	ER
7110	alpha-BHC	µg/kg	230	312	72.9 - 343	Acceptable	EPA 8081B 2000	8/12/2011	0.387	207	60.4	ER
7115	beta-BHC	µg/kg	120	178	26.4 - 239	Acceptable	EPA 8081B 2000	8/12/2011	-0.308	133	41.9	ER
7105	delta-BHC	µg/kg	120	180	30.7 - 218	Acceptable	EPA 8081B 2000	8/12/2011	-0.128	125	36.1	ER
7120	gamma-BHC(Lindane)	µg/kg	290	381	89.4 - 430	Acceptable	EPA 8081B 2000	8/12/2011	0.417	260	72.4	ER
7240	alpha-Chlordane	µg/kg	59	75.7	18.7 - 87.5	Acceptable	EPA 8081B 2000	8/12/2011	0.430	53.1	13.7	ER
7245	gamma-Chlordane	µg/kg	350	394	140 - 433	Acceptable	EPA 8081B 2000	8/12/2011	0.824	286	77.3	ER
7355	4,4'-DDD	µg/kg	370	417	129 - 497	Acceptable	EPA 8081B 2000	8/12/2011	0.684	313	83.6	ER
7360	4,4'-DDE	µg/kg	320	370	109 - 429	Acceptable	EPA 8081B 2000	8/12/2011	0.672	269	75.8	ER
7365	4,4'-DDT	µg/kg	120	136	25.8 - 181	Acceptable	EPA 8081B 2000	8/12/2011	0.480	103	34.7	ER
7470	Dieldrin	µg/kg	220	235	68.2 - 283	Acceptable	EPA 8081B 2000	8/12/2011	1.05	176	42.5	ER
7540	Endrin	µg/kg	180	181	60.1 - 226	Acceptable	EPA 8081B 2000	8/12/2011	1.03	143	35.8	ER
7530	Endrin aldehyde	µg/kg	120	439	43.9 - 483	Acceptable	EPA 8081B 2000	8/12/2011	-1.15	206	74.5	ER
7535	Endrin ketone	µg/kg	180	293	54.9 - 322	Acceptable	EPA 8081B 2000	8/12/2011	-0.0762	184	50.2	ER
7510	Endosulfan I	µg/kg	170	406	51.7 - 447	Acceptable	EPA 8081B 2000	8/12/2011	0.520	148	42.6	ER
7515	Endosulfan II	µg/kg	170	405	53.7 - 446	Acceptable	EPA 8081B 2000	8/12/2011	0.162	162	51.6	ER
7520	Endosulfan sulfate	µg/kg	120	222	37.4 - 271	Acceptable	EPA 8081B 2000	8/12/2011	-0.738	154	46.2	ER
7685	Heptachlor	µg/kg	400	469	118 - 527	Acceptable	EPA 8081B 2000	8/12/2011	0.831	322	93.5	ER
7690	Heptachlor epoxide	µg/kg	200	220	65.5 - 256	Acceptable	EPA 8081B 2000	8/12/2011	0.942	161	41.5	ER
7810	Methoxychlor	µg/kg	260	269	26.9 - 393	Acceptable	EPA 8081B 2000	8/12/2011	0.812	207	64.9	ER

SOIL Chlordane in Soil (cat# 628)

7250	Chlordane, technical	µg/kg	580	915	176 - 1150	Acceptable	EPA 8081B 2000	8/12/2011	-0.512	661	159	ER
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SOIL Toxaphene in Soil (cat# 627)

8250	Toxaphene	µg/kg	420	491	49.1 - 726	Acceptable	EPA 8081B 2000	8/24/2011	0.308	385	114	ER
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





A Waters Company

SOIL-75 2009 TNI Evaluation Final Complete Report

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

GA00051
 A520001
 09/22/11
 07/18/11 - 09/01/11

NELAC 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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SOIL Chlorinated Acid Herbicides in Soil (cat# 626)

8505	Acifluorfen	µg/kg		648	0.00 - 713	Not Reported				231	96.2	
8530	Bentazon	µg/kg		367	56.0 - 408	Not Reported				232	58.6	
8540	Chloramben	µg/kg		241	0.00 - 265	Not Reported				96.7	33.8	
8545	2,4-D	µg/kg	530	464	46.4 - 803	Acceptable	EPA 8151A 1998	8/3/2011	1.40	289	171	JS
8560	2,4-DB	µg/kg	220	390	0.00 - 540	Acceptable	EPA 8151A 1998	7/27/2011	-0.294	248	97.3	JS
8550	Dacthal diacid (DCPA)	µg/kg		661	0.00 - 1090	Not Reported				299	264	
8555	Dalapon	µg/kg	< 20	< 10.0	0.00 - 10.0	Acceptable	EPA 8151A 1998	7/27/2011		225	0.00	JS
8595	Dicamba	µg/kg	680	618	61.8 - 1020	Acceptable	EPA 8151A 1998	8/3/2011	1.46	355	223	JS
8600	3,5-Dichlorobenzoic acid	µg/kg		360	0.00 - 485	Not Reported				219	88.7	
8605	Dichlorprop	µg/kg	160	187	0.00 - 273	Acceptable	EPA 8151A 1998	7/27/2011	0.948	108	55.3	JS
8620	Dinoseb	µg/kg	110	321	0.00 - 492	Acceptable	EPA 8151A 1998	7/27/2011	-0.406	155	112	JS
7775	MCPA	µg/kg	< 1700	< 100	0.00 - 100	Acceptable	EPA 8151A 1998	7/27/2011		0.00	0.00	JS
7780	MCPP	µg/kg	< 1700	< 100	0.00 - 100	Acceptable	EPA 8151A 1998	7/27/2011		2230	0.00	JS
6500	4-Nitrophenol	µg/kg		424	0.00 - 857	Not Reported				319	179	
6605	Pentachlorophenol	µg/kg		334	0.00 - 476	Not Reported				216	86.4	
8645	Picloram	µg/kg		239	0.00 - 327	Not Reported				115	70.6	
8655	2,4,5-T	µg/kg	570	557	55.7 - 936	Acceptable	EPA 8151A 1998	8/3/2011	1.16	338	200	JS
8650	2,4,5-TP (Silvex)	µg/kg	130	209	20.9 - 338	Acceptable	EPA 8151A 1998	7/27/2011	-0.0537	134	68.0	JS

SOIL PCBs in Soil (cat# 624)

8880	Aroclor 1016	mg/kg	< 0.2	< 0.200	0.00 - 0.200	Acceptable	EPA 8082A 2000	8/5/2011		6880	0.00	ER
8885	Aroclor 1221	mg/kg	< 0.2	< 0.200	0.00 - 0.200	Acceptable	EPA 8082A 2000	8/5/2011		0.00	0.00	ER
8890	Aroclor 1232	mg/kg	15	19.4	4.78 - 26.5	Acceptable	EPA 8082A 2000	8/5/2011	-0.139	15.6	4.70	ER
8895	Aroclor 1242	mg/kg	< 0.2	< 0.200	0.00 - 0.200	Acceptable	EPA 8082A 2000	8/5/2011		7.59	1.79	ER
8900	Aroclor 1248	mg/kg	< 0.2	< 0.200	0.00 - 0.200	Acceptable	EPA 8082A 2000	8/5/2011		9.18	0.00	ER
8905	Aroclor 1254	mg/kg	< 0.2	< 0.200	0.00 - 0.200	Acceptable	EPA 8082A 2000	8/5/2011		0.00	0.00	ER
8910	Aroclor 1260	mg/kg	< 0.2	< 0.200	0.00 - 0.200	Acceptable	EPA 8082A 2000	8/5/2011		221	0.00	ER



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NELAC 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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SOIL Oil and Grease (O&G) in Soil (cat# 867)

1860	n-Hexane Extractable Material(O&G)(Grav)	mg/kg	1490	1810	607 - 2680	Acceptable	EPA 9071M	7/27/2011	-0.396	1640	390	ER
1860	n-Hexane Extractable Material(O&G)(IR)	mg/kg		2230	1120 - 4100	Not Reported				2610	0.00	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	681	793	79.3 - 1190	Acceptable	EPA 8015C	7/26/2011	0.369	617	172	CH
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	

SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	840	1740	579 - 2290	Acceptable	EPA 8015C	7/27/2011	-1.71	1430	346	JS
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