



A Waters Company

Thekkekalathil Chandrasekhar
State of Florida DEP Chemistry Laboratory
2600 Blair Stone Road
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SOIL-84



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 10/25/13

Close Date: 12/09/13

Report Issued Date: 12/11/13



A Waters Company

December 11, 2013

Thekkekalathil Chandrasekhar
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Enclosed is your final report for ERA's SOIL-84 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-84 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.

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.

Thank you for your participation in ERA's SOIL-84 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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SOIL-84 Definitions & Study Discussion

Study Dates: 10/25/13 - 12/09/13

Report Issued: 12/11/13

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 and Total Organic Carbon (TOC) in the Nutrients in Soil sample, 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 and TOC is equal to the mean of the study data, after the removal of outliers. 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 Fields of Proficiency Testing (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-84 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 most current TNI Fields of Proficiency Testing (FoPT) tables.

ERA's SOIL-84 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 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 SOIL-84 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.





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SOIL-84 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

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
<i>SOIL Organochlorine Pesticides in Soil (cat# 468)</i>							
7540	Endrin	µg/kg	267	213	74.7 - 263	Not Acceptable	EPA 8081B 2



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



Final Report Results For Laboratory State of Florida DEP Chemistry Laboratory



2009 TNI Evaluation Report

Study: **SOIL-84**

ERA Customer Number: **S744803**

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

Inorganic Results



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SOIL-84 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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SOIL Cyanide in Soil (cat# 621)

1635	Cyanide, total	mg/kg	78.1	103	25.4 - 113	Acceptable	EPA 9012B 2004	11/13/2013	0.502	64.5	27.0	BROWN_V
1923	Reactive Cyanide	mg/kg		< 200	0.00 - 200	Not Reported				7.05	4.17	
1510	Amenable Cyanide	mg/kg		< 200	0.00 - 200	Not Reported				22.4	1.27	

SOIL Ignitability/Flashpoint (cat# 874)

1780	Ignitability/Flashpoint	°F	110	106	89.0 - 123	Acceptable	EPA 1010A	11/14/2013	0.371	108	4.40	TOPOLSKI_B
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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2009 TNI Evaluation Report

Study: **SOIL-84**

ERA Customer Number: **S744803**

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

Organic Results





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SOIL-84 2009 TNI Evaluation Final Complete Report

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SOIL Nitroaromatics & Nitramines in Soil (cat# 871)

9306	4-Amino-2,6-dinitrotoluene	µg/kg		3270	1830 - 3830	Not Reported				2830	332	
9303	2-Amino-4,6-dinitrotoluene	µg/kg		1670	673 - 2200	Not Reported				1430	254	
6160	1,3-Dinitrobenzene	µg/kg	1940	2260	1600 - 2550	Acceptable	EPA 8270D 3	10/30/2013	-0.846	2070	159	GHAFFARI_M
6185	2,4-Dinitrotoluene	µg/kg		4320	834 - 6900	Not Reported				3860	212	
6190	2,6-Dinitrotoluene	µg/kg		5440	1980 - 7940	Not Reported				4960	212	
9522	HMX	µg/kg		< 1500	0.00 - 1500	Not Reported						
5015	Nitrobenzene	µg/kg		8600	2000 - 12700	Not Reported				7330	418	
9507	2-Nitrotoluene	µg/kg		< 1500	0.00 - 1500	Not Reported						
9510	3-Nitrotoluene	µg/kg		2190	1480 - 2410	Not Reported				1930	148	
9513	4-Nitrotoluene	µg/kg		9560	7300 - 10500	Not Reported				8710	469	
9432	RDX	µg/kg		1810	976 - 2160	Not Reported				1570	198	
6415	Tetryl	µg/kg		< 1500	0.00 - 1500	Not Reported						
6885	1,3,5-Trinitrobenzene	µg/kg	1710	2110	1400 - 2410	Acceptable	EPA 8270D 3	10/30/2013	-1.14	1900	168	GHAFFARI_M
9651	2,4,6-Trinitrotoluene	µg/kg		5870	2720 - 6460	Not Reported				4330	538	



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SOIL Organochlorine Pesticides in Soil (cat# 468)

7025	Aldrin	µg/kg	125	187	31.4 - 206	Acceptable	EPA 8270D 3	11/8/2013	1.01	94.1	30.4	CARBONE_I
7110	alpha-BHC	µg/kg	179	233	60.0 - 289	Acceptable	EPA 8270D 3	11/8/2013	0.145	174	31.3	CARBONE_I
7115	beta-BHC	µg/kg	342	445	85.7 - 584	Acceptable	EPA 8270D 3	11/8/2013	0.109	335	67.1	CARBONE_I
7105	delta-BHC	µg/kg	220	259	56.5 - 336	Acceptable	EPA 8270D 3	11/8/2013	0.664	196	36.0	CARBONE_I
7120	gamma-BHC(Lindane)	µg/kg	289	429	114 - 526	Acceptable	EPA 8270D 3	11/8/2013	-0.513	320	60.4	CARBONE_I
7240	alpha-Chlordane	µg/kg	137	151	45.5 - 188	Acceptable	EPA 8270D 3	11/8/2013	0.912	117	22.4	CARBONE_I
7245	gamma-Chlordane	µg/kg	203	221	78.8 - 260	Acceptable	EPA 8270D 3	11/8/2013	0.930	169	36.1	CARBONE_I
7355	4,4'-DDD	µg/kg	201	230	64.3 - 298	Acceptable	EPA 8270D 3	11/8/2013	0.611	181	32.7	CARBONE_I
7360	4,4'-DDE	µg/kg	212	235	66.9 - 286	Acceptable	EPA 8270D 3	11/8/2013	1.02	176	34.7	CARBONE_I
7365	4,4'-DDT	µg/kg	159	171	35.5 - 230	Acceptable	EPA 8270D 3	11/8/2013	0.928	133	28.0	CARBONE_I
7470	Dieldrin	µg/kg	307	331	110 - 410	Acceptable	EPA 8270D 3	11/8/2013	0.860	260	54.8	CARBONE_I
7540	Endrin	µg/kg	195	213	74.7 - 263	Acceptable	EPA 8270D 3	11/8/2013	0.670	169	38.7	CARBONE_I
7530	Endrin aldehyde	µg/kg	115	338	33.8 - 372	Acceptable	EPA 8270D 3	11/8/2013	0.407	99.6	37.7	CARBONE_I
7535	Endrin ketone	µg/kg	328	404	90.9 - 487	Acceptable	EPA 8270D 3	11/8/2013	0.595	289	65.6	CARBONE_I
7510	Endosulfan I	µg/kg	256	302	79.9 - 340	Acceptable	EPA 8270D 3	11/8/2013	0.940	210	48.8	CARBONE_I
7515	Endosulfan II	µg/kg	215	241	59.5 - 293	Acceptable	EPA 8270D 3	11/8/2013	0.924	176	41.7	CARBONE_I
7520	Endosulfan sulfate	µg/kg	252	261	49.5 - 341	Acceptable	EPA 8270D 3	11/8/2013	1.25	195	45.2	CARBONE_I
7685	Heptachlor	µg/kg	155	196	51.6 - 242	Acceptable	EPA 8270D 3	11/8/2013	0.286	147	29.1	CARBONE_I
7690	Heptachlor epoxide	µg/kg	258	295	92.4 - 354	Acceptable	EPA 8270D 3	11/8/2013	0.833	223	41.8	CARBONE_I
7810	Methoxychlor	µg/kg	117	137	13.7 - 216	Acceptable	EPA 8270D 3	11/8/2013	0.307	110	24.3	CARBONE_I



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SOIL Organochlorine Pesticides in Soil (cat# 468)

7025	Aldrin	µg/kg	167	187	31.4 - 206	Acceptable	EPA 8081B 2	11/7/2013	2.39	94.1	30.4	NAGAR_V
7110	alpha-BHC	µg/kg	202	233	60.0 - 289	Acceptable	EPA 8081B 2	11/7/2013	0.881	174	31.3	NAGAR_V
7115	beta-BHC	µg/kg	320	445	85.7 - 584	Acceptable	EPA 8081B 2	11/7/2013	-0.219	335	67.1	NAGAR_V
7105	delta-BHC	µg/kg	236	259	56.5 - 336	Acceptable	EPA 8081B 2	11/7/2013	1.11	196	36.0	NAGAR_V
7120	gamma-BHC(Lindane)	µg/kg	379	429	114 - 526	Acceptable	EPA 8081B 2	11/7/2013	0.978	320	60.4	NAGAR_V
7240	alpha-Chlordane	µg/kg	182	151	45.5 - 188	Acceptable	EPA 8081B 2	11/7/2013	2.92	117	22.4	NAGAR_V
7245	gamma-Chlordane	µg/kg	228	221	78.8 - 260	Acceptable	EPA 8081B 2	11/7/2013	1.62	169	36.1	NAGAR_V
7355	4,4'-DDD	µg/kg	287	230	64.3 - 298	Acceptable	EPA 8081B 2	11/7/2013	3.24	181	32.7	NAGAR_V
7360	4,4'-DDE	µg/kg	274	235	66.9 - 286	Acceptable	EPA 8081B 2	11/7/2013	2.81	176	34.7	NAGAR_V
7365	4,4'-DDT	µg/kg	204	171	35.5 - 230	Acceptable	EPA 8081B 2	11/7/2013	2.53	133	28.0	NAGAR_V
7470	Dieldrin	µg/kg	357	331	110 - 410	Acceptable	EPA 8081B 2	11/7/2013	1.77	260	54.8	NAGAR_V
7540	Endrin	µg/kg	267	213	74.7 - 263	Not Acceptable	EPA 8081B 2	11/7/2013	2.53	169	38.7	NAGAR_V
7530	Endrin aldehyde	µg/kg	166	338	33.8 - 372	Acceptable	EPA 8081B 2	11/7/2013	1.76	99.6	37.7	NAGAR_V
7535	Endrin ketone	µg/kg	419	404	90.9 - 487	Acceptable	EPA 8081B 2	11/7/2013	1.98	289	65.6	NAGAR_V
7510	Endosulfan I	µg/kg	289	302	79.9 - 340	Acceptable	EPA 8081B 2	11/7/2013	1.62	210	48.8	NAGAR_V
7515	Endosulfan II	µg/kg	244	241	59.5 - 293	Acceptable	EPA 8081B 2	11/7/2013	1.62	176	41.7	NAGAR_V
7520	Endosulfan sulfate	µg/kg	332	261	49.5 - 341	Acceptable	EPA 8081B 2	11/7/2013	3.02	195	45.2	NAGAR_V
7685	Heptachlor	µg/kg	178	196	51.6 - 242	Acceptable	EPA 8081B 2	11/7/2013	1.08	147	29.1	NAGAR_V
7690	Heptachlor epoxide	µg/kg	291	295	92.4 - 354	Acceptable	EPA 8081B 2	11/7/2013	1.62	223	41.8	NAGAR_V
7810	Methoxychlor	µg/kg	155	137	13.7 - 216	Acceptable	EPA 8081B 2	11/7/2013	1.87	110	24.3	NAGAR_V



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

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SOIL Chlordane in Soil (cat# 628)

7250	Chlordane, technical	µg/kg	388	425	81.3 - 562	Acceptable	EPA 8081B	11/7/2013	0.738	322	90.0	NAGAR_V
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SOIL Chlordane in Soil (cat# 628)

7250	Chlordane, technical	µg/kg	421	425	81.3 - 562	Acceptable	EPA 8276	11/8/2013	1.10	322	90.0	NAGAR_V
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SOIL Toxaphene in Soil (cat# 627)

8250	Toxaphene	µg/kg	975	1340	234 - 1980	Acceptable	EPA 8081B 2000	11/7/2013	-0.458	1110	291	NAGAR_V
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SOIL Toxaphene in Soil (cat# 627)

8250	Toxaphene	µg/kg	1150	1340	234 - 1980	Acceptable	EPA 8276	11/7/2013	0.143	1110	291	NAGAR_V
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SOIL Organophosphorus Pesticides in Soil (cat# 878)

7075	Azinphos-methyl (Guthion)	µg/kg	99.5	112	0.446 - 138	Acceptable	EPA 8141B	11/6/2013	1.31	69.4	23.0	BURGOS_J
7300	Chlorpyrifos	µg/kg	< 1.70	< 100	0.00 - 100	Acceptable	EPA 8141B	11/6/2013				BURGOS_J
7395	Demeton-O	µg/kg		< 100	0.00 - 100	Not Reported						
7385	Demeton-S	µg/kg		< 100	0.00 - 100	Not Reported						
7410	Diazinon	µg/kg	< 1.70	< 100	0.00 - 100	Acceptable	EPA 8141B	11/6/2013				BURGOS_J
8610	Dichlorvos (DDVP)	µg/kg		< 100	0.00 - 100	Not Reported						
8625	Disulfoton	µg/kg	384	375	0.00 - 423	Acceptable	EPA 8141B	11/6/2013	2.49	191	77.5	BURGOS_J
7955	Ethyl Parathion	µg/kg	902	839	87.7 - 1050	Acceptable	EPA 8141B	11/6/2013	2.08	568	160	BURGOS_J
7770	Malathion	µg/kg	818	787	0.00 - 918	Acceptable	EPA 8141B	11/6/2013	2.37	444	158	BURGOS_J
7825	Methyl Parathion	µg/kg	698	777	6.84 - 855	Acceptable	EPA 8141B	11/6/2013	1.96	424	139	BURGOS_J
7985	Phorate	µg/kg	690	733	104 - 891	Acceptable	EPA 8141B	11/19/2013	1.47	497	131	BURGOS_J
8110	Ronnel	µg/kg		< 100	0.00 - 100	Not Reported						
8200	Stirophos (tetrachlorovinphos)	µg/kg		< 100	0.00 - 100	Not Reported						
8185	Terbufos	µg/kg	171	140	49.5 - 192	Acceptable	EPA 8141B	11/6/2013	1.15	101	60.6	BURGOS_J





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SOIL PCBs in Soil (cat# 624)

8880	Aroclor 1016	mg/kg	< 0.000670	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	11/13/2013				CARBONE_I
8885	Aroclor 1221	mg/kg	1.16	1.79	0.179 - 2.49	Acceptable	EPA 8270D	11/13/2013	-0.311	1.27	0.366	CARBONE_I
8890	Aroclor 1232	mg/kg	< 0.000670	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	11/13/2013				CARBONE_I
8895	Aroclor 1242	mg/kg	< 0.000670	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	11/13/2013				CARBONE_I
8900	Aroclor 1248	mg/kg	< 0.000670	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	11/13/2013				CARBONE_I
8905	Aroclor 1254	mg/kg	< 0.000670	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	11/13/2013				CARBONE_I
8910	Aroclor 1260	mg/kg	< 0.000670	< 0.100	0.00 - 0.100	Acceptable	EPA 8270D	11/13/2013				CARBONE_I

SOIL PCBs in Soil (cat# 624)

8880	Aroclor 1016	mg/kg	< 0.00330	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	11/7/2013				NAGAR_V
8885	Aroclor 1221	mg/kg	1.39	1.79	0.179 - 2.49	Acceptable	EPA 8082A	11/7/2013	0.317	1.27	0.366	NAGAR_V
8890	Aroclor 1232	mg/kg	< 0.00330	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	11/7/2013				NAGAR_V
8895	Aroclor 1242	mg/kg	< 0.00330	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	11/7/2013				NAGAR_V
8900	Aroclor 1248	mg/kg	< 0.00330	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	11/7/2013				NAGAR_V
8905	Aroclor 1254	mg/kg	< 0.00500	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	11/7/2013				NAGAR_V
8910	Aroclor 1260	mg/kg	< 0.00330	< 0.100	0.00 - 0.100	Acceptable	EPA 8082A	11/7/2013				NAGAR_V



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

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