

Chemical Analysis Report

SIS-2009-09-01-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Overflow Analyses Performed By:
Florida Radiochemistry Services, Inc.
5456 Hoffner Ave., Suite 201
Orlando, FL 32812
DOH Accreditation E83033

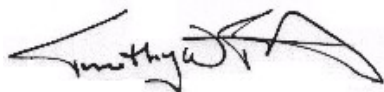
Event Description: **Acreage**
Request ID: **RQ-2009-08-24-52**
Customer: **SIS**
Project ID: **SIS-INVEST**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: Bill Martin

For additional information please contact
Timothy W. Fitzpatrick
Liang-Tsair Lin, Ph.D.
Colin Wright, Ph.D.
Kathryn Brackett
Andrew R. Tintle, QA Officer
Phone (850) 245-8085

Certified by: Timothy Fitzpatrick, Program Administrator

Date Certified: 11-SEP-2009 10:12



Abbreviations and data remark codes

CERT # - NELAP (National Environmental Laboratory Accreditation Program) Certification Number of the laboratory that performed the analysis.

LCS – Laboratory Control Sample; in the QC Failures column, this notation indicates a batch recovery failure.

MS – Matrix Spike; in the QC Failures column, this notation indicates a batch recovery failure.

RPD – Relative Percent Difference; in the QC Failures column, this notation indicates a batch failure for precision.

CCV – Continuing Calibration Verification; in the QC Failures column, this notation indicates a failure of the calibration verification check sample.

RSD – Relative Standard Deviation expressed as a percentage.

SMP – Sample.

* - Item was outside the QC Limits.

** - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

A - Value reported is the mean of two or more determinations

B - Results based on colony counts outside the acceptable range.

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J - Estimated value

K - Actual value is known to be less than value given

L - Actual value is known to be greater than value given

N - Presumptive evidence of presence of material.

O - Sampled, but analysis lost or not performed.

Q - Sample held beyond normal holding time.

T - Value reported is less than the criterion of detection.

U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

V - Analyte was detected in both sample and method blank.

X - Too few individuals to calculate SCI value.

Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate

Z - Colonies were too numerous to count (TNTC).

Precision is reported as relative percent difference unless otherwise noted.

Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published test performance acceptance criteria.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

All sample collection performed by Bureau of Laboratories staff followed the field Standard Operating Procedures adopted by reference in Rule 62-160 FAC unless otherwise noted.

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Results for NELAP accredited tests contained in this report meet the requirements specified by the National Environmental Laboratory Accreditation Conference (NELAC). All samples received were in acceptable condition and met NELAC requirements unless otherwise noted. Results generated in this report pertain to the samples collected and submitted for analysis.

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 09:45 AM

Field ID: 1Z-16441 87TH Ln N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212453	EPA 900.0	Alpha, Total	8.4			pCi/L	E83033
		Alpha-Counting Error	2.2			pCi/L	
1212478	EPA 903.1 and Ra-05	Radium 226	0.8			pCi/L	
		Radium 226-Counting Error	0.2			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 10:05 AM

Field ID: 1Z-17724 60TH LN N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212449	EPA 900.0	Alpha, Total	3.4			pCi/L	E83033
		Alpha-Counting Error	2.2			pCi/L	
1212474	EPA 903.1 and Ra-05	Radium 226	1.3			pCi/L	
		Radium 226-Counting Error	0.2			pCi/L	
		Radium 228	0.8	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 10:35 AM

Field ID: 3Z-11546 60TH ST N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212454	EPA 900.0	Alpha, Total	2.4			pCi/L	E83033
		Alpha-Counting Error	0.9			pCi/L	
1212479	EPA 903.1 and Ra-05	Radium 226	0.7			pCi/L	
		Radium 226-Counting Error	0.2			pCi/L	
		Radium 228	0.9			pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 11:05 AM

Field ID: 3Z-11843 TANGERINE BLVD

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212455	EPA 900.0	Alpha, Total	9.0			pCi/L	E83033
		Alpha-Counting Error	3.0			pCi/L	
1212480	EPA 903.1 and Ra-05	Radium 226	4.6			pCi/L	
		Radium 226-Counting Error	0.3			pCi/L	
		Radium 228	1.0			pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Field ID: 3Z-11843 TANGERINE BLVD

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 04:00 PM

Field ID: 4Z-5924 AVOCADO BLVD

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212448	EPA 900.0	Alpha, Total	1.7	U		pCi/L	E83033
		Alpha-Counting Error	1.0			pCi/L	
1212473	EPA 903.1 and Ra-05	Radium 226	0.2			pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	0.7	U		pCi/L	
		Radium 228-Counting Error	0.4			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 12:10 PM

Field ID: 5Z-14155 43RD RD N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212456	EPA 900.0	Alpha, Total	4.2			pCi/L	E83033
		Alpha-Counting Error	2.4			pCi/L	
1212481	EPA 903.1 and Ra-05	Radium 226	2.8			pCi/L	
		Radium 226-Counting Error	0.3			pCi/L	
		Radium 228	0.8	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 01:05 PM

Field ID: 5Z-15530 42 RD N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212457	EPA 900.0	Alpha, Total	23.7			pCi/L	E83033
		Alpha-Counting Error	4.3			pCi/L	
1212482	EPA 903.1 and Ra-05	Radium 226	13.3			pCi/L	
		Radium 226-Counting Error	0.6			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Field ID: 5Z-15530 42 RD N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 12:45 PM

Field ID: 5Z-16280 SYCAMORE DR E

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212452	EPA 900.0	Alpha, Total	7.4			pCi/L	E83033
		Alpha-Counting Error	3.1			pCi/L	
1212477	EPA 903.1 and Ra-05	Radium 226	4.6			pCi/L	
		Radium 226-Counting Error	0.3			pCi/L	
		Radium 228	0.7	U		pCi/L	
		Radium 228-Counting Error	0.4			pCi/L	

Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 11:15 AM

Field ID: 5Z-SID NO.1

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212439	EPA 900.0	Alpha, Total	5.2			pCi/L	E83033
		Alpha-Counting Error	2.2			pCi/L	
1212464	EPA 903.1 and Ra-05	Radium 226	3.6			pCi/L	
		Radium 226-Counting Error	0.3			pCi/L	
		Radium 228	0.8	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 10:30 AM

Field ID: 5Z-SID NO.2

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212438	EPA 900.0	Alpha, Total	14.7			pCi/L	E83033
		Alpha-Counting Error	2.9			pCi/L	
1212463	EPA 903.1 and Ra-05	Radium 226	7.6			pCi/L	
		Radium 226-Counting Error	0.4			pCi/L	
		Radium 228	0.9			pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Field ID: 5Z-SID NO.2

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 10:00 AM

Field ID: 5Z-SID NO.3

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212436	EPA 900.0	Alpha, Total	19.6			pCi/L	E83033
		Alpha-Counting Error	3.6			pCi/L	
1212461	EPA 903.1 and Ra-05	Radium 226	10.8			pCi/L	
		Radium 226-Counting Error	0.5			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 10:00 AM

Field ID: 5Z-SID NO.3 DUP

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212437	EPA 900.0	Alpha, Total	18.5			pCi/L	E83033
		Alpha-Counting Error	4.3			pCi/L	
1212462	EPA 903.1 and Ra-05	Radium 226	10.5			pCi/L	
		Radium 226-Counting Error	0.5			pCi/L	
		Radium 228	1.3			pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 09:30 AM

Field ID: 5Z-SID NO.4

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212435	EPA 900.0	Alpha, Total	17.1			pCi/L	E83033
		Alpha-Counting Error	3.7			pCi/L	
1212460	EPA 903.1 and Ra-05	Radium 226	7.7			pCi/L	
		Radium 226-Counting Error	0.4			pCi/L	
		Radium 228	1.2			pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Field ID: 5Z-SID NO.4

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 09:00 AM

Field ID: 5Z-SID NO.5

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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1212434	EPA 900.0	Alpha, Total	11.4			pCi/L	E83033
		Alpha-Counting Error	3.1			pCi/L	
1212459	EPA 903.1 and Ra-05	Radium 226	2.3			pCi/L	
		Radium 226-Counting Error	0.3			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 11:30 AM

Field ID: 5Z-SID OUTFALL & SYCAMORE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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1212445	EPA 900.0	Alpha, Total	1.2			pCi/L	E83033
		Alpha-Counting Error	0.6			pCi/L	
1212470	EPA 903.1 and Ra-05	Radium 226	0.5			pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 11:40 AM

Field ID: 5Z-SID POE

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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1212440	EPA 900.0	Alpha, Total	1.5	U		pCi/L	E83033
		Alpha-Counting Error	0.9			pCi/L	
1212465	EPA 903.1 and Ra-05	Radium 226	0.2	U		pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Field ID: 5Z-SID POE

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 12:00 PM

Field ID: 5Z-SID REJECT WATER

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212441	EPA 900.0	Alpha, Total	68.0			pCi/L	E83033
		Alpha-Counting Error	10.3			pCi/L	
1212466	EPA 903.1 and Ra-05	Radium 226	31.4			pCi/L	
		Radium 226-Counting Error	0.9			pCi/L	
		Radium 228	0.8	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 12:40 PM

Field ID: 5Z-SID REPUMP WATER

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212442	EPA 900.0	Alpha, Total	1.2	U		pCi/L	E83033
		Alpha-Counting Error	0.7			pCi/L	
1212467	EPA 903.1 and Ra-05	Radium 226	0.2	U		pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	0.8	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 10:55 AM

Field ID: 6Z-18768 47TH CT N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212450	EPA 900.0	Alpha, Total	2.7			pCi/L	E83033
		Alpha-Counting Error	1.0			pCi/L	
1212475	EPA 903.1 and Ra-05	Radium 226	1.3			pCi/L	
		Radium 226-Counting Error	0.2			pCi/L	
		Radium 228	0.7	U		pCi/L	
		Radium 228-Counting Error	0.4			pCi/L	

Field ID: 6Z-18768 47TH CT N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 11:43 AM

Field ID: 6Z-18852 42 RD N

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212451	EPA 900.0	Alpha, Total	9.8			pCi/L	E83033
		Alpha-Counting Error	2.8			pCi/L	
1212476	EPA 903.1 and Ra-05	Radium 226	5.2			pCi/L	
		Radium 226-Counting Error	0.3			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Ref. Method and Comment:

EPA 900.0 Elevated counting error due to interference from a high concentration of dissolved solids in the sample. Reference report from Florida Radiochemistry Services, Inc.

Sample Location: ACREAGE

Collection Date/Time: 08/27/2009 02:36 PM

Field ID: FIELD BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212458	EPA 900.0	Alpha, Total	0.9	U		pCi/L	E83033
		Alpha-Counting Error	0.5			pCi/L	
1212483	EPA 903.1 and Ra-05	Radium 226	0.2	U		pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 12:15 PM

Field ID: L8-TIE BACK

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212446	EPA 900.0	Alpha, Total	1.8			pCi/L	E83033
		Alpha-Counting Error	0.5			pCi/L	
1212471	EPA 903.1 and Ra-05	Radium 226	0.4			pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	1.0			pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Field ID: L8-TIE BACK

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 09:50 AM

Field ID: M CANAL 1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212443	EPA 900.0	Alpha, Total	1.8			pCi/L	E83033
		Alpha-Counting Error	0.6			pCi/L	
1212468	EPA 903.1 and Ra-05	Radium 226	0.2			pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	0.9			pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 01:10 PM

Field ID: M CANAL 2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212444	EPA 900.0	Alpha, Total	1.3			pCi/L	E83033
		Alpha-Counting Error	0.7			pCi/L	
1212469	EPA 903.1 and Ra-05	Radium 226	0.4			pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	0.9	U		pCi/L	
		Radium 228-Counting Error	0.6			pCi/L	

Sample Location: ACREAGE

Collection Date/Time: 08/26/2009 03:10 PM

Field ID: M CANAL-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
1212447	EPA 900.0	Alpha, Total	2.1	U		pCi/L	E83033
		Alpha-Counting Error	1.3			pCi/L	
1212472	EPA 903.1 and Ra-05	Radium 226	0.7			pCi/L	
		Radium 226-Counting Error	0.1			pCi/L	
		Radium 228	0.8	U		pCi/L	
		Radium 228-Counting Error	0.5			pCi/L	

Field ID: M CANAL-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	QC Failures	Units	Cert #
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Reference Method Descriptions

Ref. Method:	Description
EPA 900.0	Gross Alpha in water by overflow lab
EPA 903.1 and Ra-05	Radium 226 (903.1) and 228 (Ra-05) by overflow lab

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared by	Analysis Date/Time	Analyzed by	Associated Samples
EPA 900.0	8/27/2009			08/29/2009	Florida RadioChemistry Service	1212434, 1212435, 1212436, 1212437, 1212438, 1212439, 1212440, 1212441, 1212442, 1212443, 1212444, 1212445, 1212446
EPA 900.0	8/27/2009			09/01/2009	Florida RadioChemistry Service	1212447, 1212448, 1212449, 1212450, 1212451, 1212452, 1212453, 1212454, 1212455, 1212456, 1212457, 1212458
EPA 903.1 and Ra-05	8/27/2009			09/04/2009	Florida RadioChemistry Service	1212459, 1212460, 1212461, 1212462, 1212463, 1212464, 1212465, 1212466, 1212467, 1212468
EPA 903.1 and Ra-05	8/27/2009			09/05/2009	Florida RadioChemistry Service	1212469, 1212470, 1212471, 1212478, 1212479, 1212480, 1212481, 1212482
EPA 903.1 and Ra-05	8/27/2009			09/07/2009	Florida RadioChemistry Service	1212469, 1212470, 1212471, 1212472, 1212473, 1212474, 1212475, 1212476, 1212477, 1212478, 1212479, 1212480, 1212481, 1212482, 1212483
EPA 903.1 and Ra-05	8/27/2009			09/08/2009	Florida RadioChemistry Service	1212472, 1212473, 1212474, 1212475, 1212476, 1212477, 1212482, 1212483